

PF-0741 USN

<110> TANG, Y. Tom; JACKSON, Jennifer L.  
YUE, Henry; REDDY, Roopa  
LAL, Preeti; SHAH, Purvi  
AZIMZAI, Yalda; BAUGHN, Mariah R.  
LU, Dyung Aina M.; BANDMAN, Olga  
SHIH, Leo L.; ARVIZU, Chandra S.

<120> Proteins Associated with Cell Differentiation

<130> PF-0741 USN

<140> 10/070,226

<141> Herewith

<150> PCT/US00/25435

<151> 09/14/2000

<150> US 60/169,155

<151> 12/06/1999

<150> US 60/154,140

<151> 08/15/1999

<160> 56

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<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1681724CD1

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Thr | Pro | Asn | Asn | Leu | Thr | Pro | Thr | Asn | Cys | Ser | Trp | Trp |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Pro | Ile | Ser | Ala | Leu | Glu | Ser | Asp | Ala | Ala | Lys | Pro | Ala | Glu | Ala |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Pro | Asp | Ala | Pro | Glu | Ala | Ala | Ser | Pro | Ala | His | Trp | Pro | Arg | Glu |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Ser | Leu | Val | Leu | Tyr | His | Trp | Thr | Gln | Ser | Phe | Ser | Ser | Gln | Lys |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Val | Arg | Leu | Val | Ile | Ala | Glu | Lys | Gly | Leu | Val | Cys | Glu | Glu | Arg |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Asp | Val | Ser | Leu | Pro | Gln | Ser | Glu | His | Lys | Glu | Pro | Trp | Phe | Met |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Arg | Leu | Asn | Leu | Gly | Glu | Glu | Val | Pro | Val | Ile | Ile | His | Arg | Asp |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Asn | Ile | Ile | Ser | Asp | Tyr | Asp | Gln | Ile | Ile | Asp | Tyr | Val | Glu | Arg |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| Thr | Phe | Thr | Gly | Glu | His | Val | Val | Ala | Leu | Met | Pro | Glu | Val | Gly |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Leu | Gln | His | Ala | Arg | Val | Leu | Gln | Tyr | Arg | Glu | Leu | Leu | Asp | 140 | 145 | 150 |
| Ala | Leu | Pro | Met | Asp | Ala | Tyr | Thr | His | Gly | Cys | Ile | Leu | His | Pro | 155 | 160 | 165 |
| Glu | Leu | Thr | Thr | Asp | Ser | Met | Ile | Pro | Lys | Tyr | Ala | Thr | Ala | Glu | 170 | 175 | 180 |
| Ile | Arg | Arg | His | Leu | Ala | Asn | Ala | Thr | Thr | Asp | Leu | Met | Lys | Leu | 185 | 190 | 195 |
| Asp | His | Glu | Glu | Glu | Pro | Gln | Leu | Ser | Glu | Pro | Tyr | Leu | Ser | Lys | 200 | 205 | 210 |
| Gln | Lys | Lys | Leu | Met | Ala | Lys | Ile | Leu | Glu | His | Asp | Asp | Val | Ser | 215 | 220 | 225 |
| Tyr | Leu | Lys | Lys | Ile | Leu | Gly | Glu | Leu | Ala | Met | Val | Leu | Asp | Gln | 230 | 235 | 240 |
| Ile | Glu | Ala | Glu | Leu | Glu | Lys | Arg | Lys | Leu | Glu | Asn | Glu | Gly | Gln | 245 | 250 | 255 |
| Lys | Cys | Glu | Leu | Trp | Leu | Cys | Gly | Cys | Ala | Phe | Thr | Leu | Ala | Asp | 260 | 265 | 270 |
| Val | Leu | Leu | Gly | Ala | Thr | Leu | His | Arg | Leu | Lys | Phe | Leu | Gly | Leu | 275 | 280 | 285 |
| Ser | Lys | Lys | Tyr | Trp | Glu | Asp | Gly | Ser | Arg | Pro | Asn | Leu | Gln | Ser | 290 | 295 | 300 |
| Phe | Phe | Glu | Arg | Val | Gln | Arg | Arg | Phe | Ala | Phe | Arg | Lys | Val | Leu | 305 | 310 | 315 |
| Gly | Asp | Ile | His | Thr | Thr | Leu | Leu | Ser | Ala | Val | Ile | Pro | Asn | Ala | 320 | 325 | 330 |
| Phe | Arg | Leu | Val | Lys | Arg | Lys | Pro | Pro | Ser | Phe | Phe | Gly | Ala | Ser | 335 | 340 | 345 |
| Phe | Leu | Met | Gly | Ser | Leu | Gly | Gly | Met | Gly | Tyr | Phe | Ala | Tyr | Trp | 350 | 355 | 360 |
| Tyr | Leu | Lys | Lys | Lys | Tyr | Ile |     |     |     |     |     |     |     |     | 365 |     |     |

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<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1718047CD1

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|
| Met | Ala | Leu | Leu | Lys | Ala | Asn | Lys | Asp | Leu | Ile | Ser | Ala | Gly | Leu | 1  | 5  | 10 | 15 |
| Lys | Glu | Phe | Ser | Val | Leu | Leu | Asn | Gln | Gln | Val | Phe | Asn | Asp | Pro | 20 | 25 | 30 | 35 |
| Leu | Val | Ser | Glu | Glu | Asp | Met | Val | Thr | Val | Val | Glu | Asp | Trp | Met | 35 | 40 | 45 | 50 |
| Asn | Phe | Tyr | Ile | Asn | Tyr | Tyr | Arg | Gln | Gln | Val | Thr | Gly | Glu | Pro | 50 | 55 | 60 | 65 |
| Gln | Glu | Arg | Asp | Lys | Ala | Leu | Gln | Glu | Leu | Arg | Gln | Glu | Leu | Asn | 65 | 70 | 75 | 80 |
| Thr | Leu | Ala | Asn | Pro | Phe | Leu | Ala | Lys | Tyr | Arg | Asp | Phe | Leu | Lys |    |    |    |    |

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|     |     |     |     |     |     |     |     |     |     |     |     |  |  |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|----|
|     |     |     |     | 80  |     |     |     |     |     | 85  |     |  |  | 90 |
| Ser | His | Glu | Leu | Pro | Ser | His | Pro | Pro | Pro | Ser | Ser |  |  |    |
|     |     |     |     | 95  |     |     |     |     |     | 100 |     |  |  |    |

<210> 3

<211> 205

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1980323CD1

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Glu | Pro | Leu | Gln | Pro | Asp | Pro | Gly | Ala | Ala | Glu | Asp | Ala |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Ala | Ala | Gln | Ala | Val | Glu | Thr | Pro | Gly | Trp | Lys | Ala | Pro | Glu | Asp |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Ala | Gly | Pro | Gln | Pro | Gly | Ser | Tyr | Glu | Ile | Arg | His | Tyr | Gly | Pro |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Ala | Lys | Trp | Val | Ser | Thr | Ser | Val | Glu | Ser | Met | Asp | Trp | Asp | Ser |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Ala | Ile | Gln | Thr | Gly | Phe | Thr | Lys | Leu | Asn | Ser | Tyr | Ile | Gln | Gly |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Lys | Asn | Glu | Lys | Glu | Met | Lys | Ile | Lys | Met | Thr | Ala | Pro | Val | Thr |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Ser | Tyr | Val | Glu | Pro | Gly | Ser | Gly | Pro | Phe | Ser | Glu | Ser | Thr | Ile |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Thr | Ile | Ser | Leu | Tyr | Ile | Pro | Ser | Glu | Gln | Gln | Phe | Asp | Pro | Pro |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| Arg | Pro | Leu | Glu | Ser | Asp | Val | Phe | Ile | Glu | Asp | Arg | Ala | Glu | Met |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Thr | Val | Phe | Val | Arg | Ser | Phe | Asp | Gly | Phe | Ser | Ser | Ala | Gln | Lys |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |
| Asn | Gln | Glu | Gln | Leu | Leu | Thr | Leu | Ala | Ser | Ile | Leu | Arg | Glu | Asp |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |
| Gly | Lys | Val | Phe | Asp | Glu | Lys | Val | Tyr | Tyr | Thr | Ala | Gly | Tyr | Asn |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |
| Ser | Pro | Val | Lys | Leu | Leu | Asn | Arg | Asn | Asn | Glu | Val | Trp | Leu | Ile |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |
| Gln | Lys | Asn | Glu | Pro | Thr | Lys | Glu | Asn | Glu |     |     |     |     |     |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     |     |

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<211> 120

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1990956CD1

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Met Glu Ser Lys Glu Glu Leu Ala Ala Asn Asn Leu Asn Gly Glu

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|                     |                     |                     |    |
|---------------------|---------------------|---------------------|----|
| 1                   | 5                   | 10                  | 15 |
| Asn Ala Gln Gln Glu | Asn Glu Gly Gly Glu | Gln Ala Pro Thr Gln |    |
| 20                  | 25                  | 30                  |    |
| Asn Glu Glu Glu Ser | Arg His Leu Gly Gly | Glu Gly Gln Lys     |    |
| 35                  | 40                  | 45                  |    |
| Pro Gly Gly Asn Ile | Arg Arg Gly Arg Val | Arg Arg Leu Val Pro |    |
| 50                  | 55                  | 60                  |    |
| Asn Phe Arg Trp Ala | Ile Pro Asn Arg His | Ile Glu His Asn Glu |    |
| 65                  | 70                  | 75                  |    |
| Ala Arg Asp Asp Val | Glu Arg Phe Val Gly | Gln Met Met Glu Ile |    |
| 80                  | 85                  | 90                  |    |
| Lys Arg Lys Thr Arg | Glu Gln Gln Met Arg | His Tyr Met Arg Phe |    |
| 95                  | 100                 | 105                 |    |
| Gln Thr Pro Glu Pro | Asp Asn His Tyr Asp | Phe Cys Leu Ile Pro |    |
| 110                 | 115                 | 120                 |    |

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<211> 108

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2009069CD1

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|---------------------|---------------------|---------------------|----|
| Met Ala Lys Val Thr | Ser Glu Pro Gln Lys | Pro Asn Glu Asp Val |    |
| 1                   | 5                   | 10                  | 15 |
| Asp Glu His Thr Pro | Ser Thr Ser Ser Thr | Lys Gly Arg Lys Lys |    |
| 20                  | 25                  | 30                  |    |
| Gly Lys Thr Pro Arg | Gln Arg Arg Ser Arg | Ser Gly Val Lys Gly |    |
| 35                  | 40                  | 45                  |    |
| Leu Lys Thr Thr Arg | Lys Ala Lys Arg Pro | Leu Arg Gly Ser Ser |    |
| 50                  | 55                  | 60                  |    |
| Ser Gln Lys Ala Gly | Glu Thr Asn Thr Pro | Ala Gly Lys Pro Lys |    |
| 65                  | 70                  | 75                  |    |
| Lys Ala Arg Gly Pro | Ile Leu Arg Gly Arg | Tyr His Arg Leu Lys |    |
| 80                  | 85                  | 90                  |    |
| Glu Lys Met Lys Lys | Glu Glu Ala Asp Lys | Glu Gln Ser Glu Thr |    |
| 95                  | 100                 | 105                 |    |
| Ser Val Leu         |                     |                     |    |

<210> 6

<211> 308

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

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<400> 6

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5

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|---|-----|-----|-----|
| 1   | 5   | 10  | 15  |
| Pro Cys Leu Pro Lys Thr Gln Glu Gln Cys Gln Ala Lys Ala Glu |     |     |     |
|   | 20  | 25  | 30  |
| Glu Val Cys Leu Pro Thr Cys Gln His Pro Cys Gln Asp Lys Cys |     |     |     |
|   | 35  | 40  | 45  |
| Leu Val Gln Ala Gln Glu Val Cys Leu Ser Gln Cys Gln Glu Ser |     |     |     |
|   | 50  | 55  | 60  |
| Ser Gln Glu Lys Cys Pro Gln Gln Gly Gln Glu Pro Tyr Leu Pro |     |     |     |
|   | 65  | 70  | 75  |
| Pro Cys Gln Asp Gln Cys Pro Pro Gln Cys Ala Glu Pro Cys Gln |     |     |     |
|   | 80  | 85  | 90  |
| Glu Leu Phe Gln Thr Lys Cys Val Glu Val Cys Pro Gln Lys Val |     |     |     |
|   | 95  | 100 | 105 |
| Gln Glu Lys Cys Ser Ser Pro Gly Lys Gly Lys                 |     |     |     |
|   | 110 | 115 |     |

<210> 8

<211> 1253

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

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| Met Thr Thr His Val Thr Leu Glu Asp Ala Leu Ser Asn Val Asp |     |     |     |
| 1   | 5   | 10  | 15  |
| Leu Leu Glu Glu Leu Pro Leu Pro Asp Gln Gln Pro Cys Ile Glu |     |     |     |
|   | 20  | 25  | 30  |
| Pro Pro Pro Ser Ser Ile Met Tyr Gln Ala Asn Phe Asp Thr Asn |     |     |     |
|   | 35  | 40  | 45  |
| Phe Glu Asp Arg Asn Ala Phe Val Thr Gly Ile Ala Arg Tyr Ile |     |     |     |
|   | 50  | 55  | 60  |
| Glu Gln Ala Thr Val His Ser Ser Met Asn Glu Met Leu Glu Glu |     |     |     |
|   | 65  | 70  | 75  |
| Gly His Glu Tyr Ala Val Met Leu Tyr Thr Trp Arg Ser Cys Ser |     |     |     |
|   | 80  | 85  | 90  |
| Arg Ala Ile Pro Gln Val Lys Cys Asn Glu Gln Pro Asn Arg Val |     |     |     |
|   | 95  | 100 | 105 |
| Glu Ile Tyr Glu Lys Thr Val Glu Val Leu Glu Pro Glu Val Thr |     |     |     |
|   | 110 | 115 | 120 |
| Lys Leu Met Lys Phe Met Tyr Phe Gln Arg Lys Ala Ile Glu Arg |     |     |     |
|   | 125 | 130 | 135 |
| Phe Cys Ser Glu Val Lys Arg Leu Cys His Ala Glu Arg Arg Lys |     |     |     |
|   | 140 | 145 | 150 |
| Asp Phe Val Ser Glu Ala Tyr Leu Leu Thr Leu Gly Lys Phe Ile |     |     |     |
|   | 155 | 160 | 165 |
| Asn Met Phe Ala Val Leu Asp Glu Leu Lys Asn Met Lys Cys Ser |     |     |     |
|   | 170 | 175 | 180 |
| Val Lys Asn Asp His Ser Ala Tyr Lys Arg Ala Ala Gln Phe Leu |     |     |     |
|   | 185 | 190 | 195 |
| Arg Lys Met Ala Asp Pro Gln Ser Ile Gln Glu Ser Gln Asn Leu |     |     |     |
|   | 200 | 205 | 210 |

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Met | Phe | Leu | Ala | Asn | His | Asn | Arg | Ile | Thr | Gln | Cys | Leu | His | 215 | 220 | 225 |
| Gln | Gln | Leu | Glu | Val | Ile | Pro | Gly | Tyr | Glu | Glu | Leu | Leu | Ala | Asp | 230 | 235 | 240 |
| Ile | Val | Asn | Ile | Cys | Val | Asp | Tyr | Tyr | Glu | Asn | Lys | Met | Tyr | Leu | 245 | 250 | 255 |
| Thr | Pro | Ser | Glu | Lys | His | Met | Leu | Leu | Lys | Val | Met | Gly | Phe | Gly | 260 | 265 | 270 |
| Leu | Tyr | Leu | Met | Asp | Gly | Asn | Val | Ser | Asn | Ile | Tyr | Lys | Leu | Asp | 275 | 280 | 285 |
| Ala | Lys | Lys | Arg | Ile | Asn | Leu | Ser | Lys | Ile | Asp | Lys | Phe | Phe | Lys | 290 | 295 | 300 |
| Gln | Leu | Gln | Val | Val | Pro | Leu | Phe | Gly | Asp | Met | Gln | Ile | Glu | Leu | 305 | 310 | 315 |
| Ala | Arg | Tyr | Ile | Lys | Thr | Ser | Ala | His | Tyr | Glu | Glu | Asn | Lys | Ser | 320 | 325 | 330 |
| Lys | Trp | Thr | Cys | Thr | Gln | Ser | Ser | Ile | Ser | Pro | Gln | Tyr | Asn | Ile | 335 | 340 | 345 |
| Cys | Glu | Gln | Met | Val | Gln | Ile | Arg | Asp | Asp | His | Ile | Arg | Phe | Ile | 350 | 355 | 360 |
| Ser | Glu | Leu | Ala | Arg | Tyr | Ser | Asn | Ser | Glu | Val | Val | Thr | Gly | Ser | 365 | 370 | 375 |
| Gly | Leu | Asp | Ser | Gln | Lys | Ser | Asp | Glu | Glu | Tyr | Arg | Glu | Leu | Phe | 380 | 385 | 390 |
| Asp | Leu | Ala | Leu | Arg | Gly | Leu | Gln | Leu | Leu | Ser | Lys | Trp | Ser | Ala | 395 | 400 | 405 |
| His | Val | Met | Glu | Val | Tyr | Ser | Trp | Lys | Leu | Val | His | Pro | Thr | Asp | 410 | 415 | 420 |
| Lys | Phe | Cys | Asn | Lys | Asp | Cys | Pro | Gly | Thr | Ala | Glu | Glu | Tyr | Glu | 425 | 430 | 435 |
| Arg | Ala | Thr | Arg | Tyr | Asn | Tyr | Thr | Ser | Glu | Glu | Lys | Phe | Ala | Phe | 440 | 445 | 450 |
| Val | Glu | Val | Ile | Ala | Met | Ile | Lys | Gly | Leu | Gln | Val | Leu | Met | Gly | 455 | 460 | 465 |
| Arg | Met | Glu | Ser | Val | Phe | Asn | Gln | Ala | Ile | Arg | Asn | Thr | Ile | Tyr | 470 | 475 | 480 |
| Ala | Ala | Leu | Gln | Asp | Phe | Ala | Gln | Val | Thr | Leu | Arg | Glu | Pro | Leu | 485 | 490 | 495 |
| Arg | Gln | Ala | Val | Arg | Lys | Lys | Lys | Asn | Val | Leu | Ile | Ser | Val | Leu | 500 | 505 | 510 |
| Gln | Ala | Ile | Arg | Lys | Thr | Ile | Cys | Asp | Trp | Glu | Gly | Gly | Arg | Glu | 515 | 520 | 525 |
| Pro | Pro | Asn | Asp | Pro | Cys | Leu | Arg | Gly | Glu | Lys | Asp | Pro | Lys | Gly | 530 | 535 | 540 |
| Gly | Phe | Asp | Ile | Lys | Val | Pro | Arg | Arg | Ala | Val | Gly | Pro | Ser | Ser | 545 | 550 | 555 |
| Thr | Gln | Leu | Tyr | Met | Val | Arg | Thr | Met | Leu | Glu | Ser | Leu | Ile | Ala | 560 | 565 | 570 |
| Asp | Lys | Ser | Gly | Ser | Lys | Lys | Thr | Leu | Arg | Ser | Ser | Leu | Asp | Gly | 575 | 580 | 585 |
| Pro | Ile | Val | Leu | Ala | Ile | Glu | Asp | Phe | His | Lys | Gln | Ser | Phe | Phe | 590 | 595 | 600 |
| Phe | Thr | His | Leu | Leu | Asn | Ile | Ser | Glu | Ala | Leu | Gln | Gln | Cys | Cys | 605 | 610 | 615 |

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|     |     |     |     |      |     |     |     |     |      |     |     |     |     |     |  |  |      |
|-----|-----|-----|-----|------|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|--|--|------|
| Asp | Leu | Ser | Gln | Leu  | Trp | Phe | Arg | Glu | Phe  | Phe | Leu | Glu | Leu | Thr |  |  |      |
|     |     |     |     | 620  |     |     |     |     | 625  |     |     |     |     |     |  |  | 630  |
| Met | Gly | Arg | Arg | Ile  | Gln | Phe | Pro | Ile | Glu  | Met | Ser | Met | Pro | Trp |  |  |      |
|     |     |     |     | 635  |     |     |     |     | 640  |     |     |     |     |     |  |  | 645  |
| Ile | Leu | Thr | Asp | His  | Ile | Leu | Glu | Thr | Lys  | Glu | Pro | Ser | Met | Met |  |  |      |
|     |     |     |     | 650  |     |     |     |     | 655  |     |     |     |     |     |  |  | 660  |
| Glu | Tyr | Val | Leu | Tyr  | Pro | Leu | Asp | Leu | Tyr  | Asn | Asp | Ser | Ala | Tyr |  |  |      |
|     |     |     |     | 665  |     |     |     |     | 670  |     |     |     |     |     |  |  | 675  |
| Tyr | Ala | Leu | Thr | Lys  | Phe | Lys | Lys | Gln | Phe  | Leu | Tyr | Asp | Glu | Ile |  |  |      |
|     |     |     |     | 680  |     |     |     |     | 685  |     |     |     |     |     |  |  | 690  |
| Glu | Ala | Glu | Val | Asn  | Leu | Cys | Phe | Asp | Gln  | Phe | Val | Tyr | Lys | Leu |  |  |      |
|     |     |     |     | 695  |     |     |     |     | 700  |     |     |     |     |     |  |  | 705  |
| Ala | Asp | Gln | Ile | Phe  | Ala | Tyr | Tyr | Lys | Ala  | Met | Ala | Gly | Ser | Val |  |  |      |
|     |     |     |     | 710  |     |     |     |     | 715  |     |     |     |     |     |  |  | 720  |
| Leu | Leu | Asp | Lys | Arg  | Phe | Arg | Ala | Glu | Cys  | Lys | Asn | Tyr | Gly | Val |  |  |      |
|     |     |     |     | 725  |     |     |     |     | 730  |     |     |     |     |     |  |  | 735  |
| Ile | Ile | Pro | Tyr | Pro  | Pro | Ser | Asn | Arg | Tyr  | Glu | Thr | Leu | Leu | Lys |  |  |      |
|     |     |     |     | 740  |     |     |     |     | 745  |     |     |     |     |     |  |  | 750  |
| Gln | Arg | His | Val | Gln  | Leu | Leu | Gly | Arg | Ser  | Ile | Asp | Leu | Asn | Arg |  |  |      |
|     |     |     |     | 755  |     |     |     |     | 760  |     |     |     |     |     |  |  | 765  |
| Leu | Ile | Thr | Gln | Arg  | Ile | Ser | Ala | Ala | Met  | Tyr | Lys | Ser | Leu | Asp |  |  |      |
|     |     |     |     | 770  |     |     |     |     | 775  |     |     |     |     |     |  |  | 780  |
| Gln | Ala | Ile | Ser | Arg  | Phe | Glu | Ser | Glu | Asp  | Leu | Thr | Ser | Ile | Val |  |  |      |
|     |     |     |     | 785  |     |     |     |     | 790  |     |     |     |     |     |  |  | 795  |
| Glu | Leu | Glu | Trp | Leu  | Leu | Glu | Ile | Asn | Arg  | Leu | Thr | His | Arg | Leu |  |  |      |
|     |     |     |     | 800  |     |     |     |     | 805  |     |     |     |     |     |  |  | 810  |
| Leu | Cys | Lys | His | Met  | Thr | Leu | Asp | Ser | Phe  | Asp | Ala | Met | Phe | Arg |  |  |      |
|     |     |     |     | 815  |     |     |     |     | 820  |     |     |     |     |     |  |  | 825  |
| Glu | Ala | Asn | His | Asn  | Val | Ser | Ala | Pro | Tyr  | Gly | Arg | Ile | Thr | Leu |  |  |      |
|     |     |     |     | 830  |     |     |     |     | 835  |     |     |     |     |     |  |  | 840  |
| His | Val | Phe | Trp | Glu  | Leu | Asn | Phe | Asp | Phe  | Leu | Pro | Asn | Tyr | Cys |  |  |      |
|     |     |     |     | 845  |     |     |     |     | 850  |     |     |     |     |     |  |  | 855  |
| Tyr | Asn | Gly | Ser | Thr  | Asn | Arg | Phe | Val | Arg  | Thr | Ala | Ile | Pro | Phe |  |  |      |
|     |     |     |     | 860  |     |     |     |     | 865  |     |     |     |     |     |  |  | 870  |
| Thr | Gln | Glu | Pro | Gln  | Arg | Asp | Lys | Pro | Ala  | Asn | Val | Gln | Pro | Tyr |  |  |      |
|     |     |     |     | 875  |     |     |     |     | 880  |     |     |     |     |     |  |  | 885  |
| Tyr | Leu | Tyr | Gly | Ser  | Lys | Pro | Leu | Asn | Ile  | Ala | Tyr | Ser | His | Ile |  |  |      |
|     |     |     |     | 890  |     |     |     |     | 895  |     |     |     |     |     |  |  | 900  |
| Tyr | Ser | Ser | Tyr | Arg  | Asn | Phe | Val | Gly | Pro  | Pro | His | Phe | Lys | Thr |  |  |      |
|     |     |     |     | 905  |     |     |     |     | 910  |     |     |     |     |     |  |  | 915  |
| Ile | Cys | Arg | Leu | Leu  | Gly | Tyr | Gln | Gly | Ile  | Ala | Val | Val | Met | Glu |  |  |      |
|     |     |     |     | 920  |     |     |     |     | 925  |     |     |     |     |     |  |  | 930  |
| Glu | Leu | Leu | Lys | Ile  | Val | Lys | Ser | Leu | Leu  | Gln | Gly | Thr | Ile | Leu |  |  |      |
|     |     |     |     | 935  |     |     |     |     | 940  |     |     |     |     |     |  |  | 945  |
| Gln | Tyr | Val | Lys | Thr  | Leu | Ile | Glu | Val | Met  | Pro | Lys | Ile | Cys | Arg |  |  |      |
|     |     |     |     | 950  |     |     |     |     | 955  |     |     |     |     |     |  |  | 960  |
| Leu | Pro | Arg | His | Glu  | Tyr | Gly | Ser | Pro | Gly  | Ile | Leu | Glu | Phe | Phe |  |  |      |
|     |     |     |     | 965  |     |     |     |     | 970  |     |     |     |     |     |  |  | 975  |
| His | His | Gln | Leu | Lys  | Asp | Ile | Ile | Glu | Tyr  | Ala | Glu | Leu | Lys | Thr |  |  |      |
|     |     |     |     | 980  |     |     |     |     | 985  |     |     |     |     |     |  |  | 990  |
| Asp | Val | Phe | Gln | Ser  | Leu | Arg | Glu | Val | Gly  | Asn | Ala | Ile | Leu | Phe |  |  |      |
|     |     |     |     | 995  |     |     |     |     | 1000 |     |     |     |     |     |  |  | 1005 |
| Cys | Leu | Leu | Ile | Glu  | Gln | Ala | Leu | Ser | Gln  | Glu | Glu | Val | Cys | Asp |  |  |      |
|     |     |     |     | 1010 |     |     |     |     | 1015 |     |     |     |     |     |  |  | 1020 |



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|     |     |     |     |      |     |     |     |     |      |     |     |     |     |      |  |  |
|-----|-----|-----|-----|------|-----|-----|-----|-----|------|-----|-----|-----|-----|------|--|--|
| Leu | Leu | His | Ala | Ala  | Pro | Phe | Gln | Asn | Ile  | Leu | Pro | Arg | Val | Tyr  |  |  |
|     |     |     |     | 1025 |     |     |     |     | 1030 |     |     |     |     | 1035 |  |  |
| Ile | Lys | Glu | Gly | Glu  | Arg | Leu | Glu | Val | Arg  | Met | Lys | Arg | Leu | Glu  |  |  |
|     |     |     |     | 1040 |     |     |     |     | 1045 |     |     |     |     | 1050 |  |  |
| Ala | Lys | Tyr | Ala | Pro  | Leu | His | Leu | Val | Pro  | Leu | Ile | Glu | Arg | Leu  |  |  |
|     |     |     |     | 1055 |     |     |     |     | 1060 |     |     |     |     | 1065 |  |  |
| Gly | Thr | Pro | Gln | Gln  | Ile | Ala | Ile | Ala | Arg  | Glu | Gly | Asp | Leu | Leu  |  |  |
|     |     |     |     | 1070 |     |     |     |     | 1075 |     |     |     |     | 1080 |  |  |
| Thr | Lys | Glu | Arg | Leu  | Cys | Cys | Gly | Leu | Ser  | Met | Phe | Glu | Val | Ile  |  |  |
|     |     |     |     | 1085 |     |     |     |     | 1090 |     |     |     |     | 1095 |  |  |
| Leu | Thr | Arg | Ile | Arg  | Ser | Tyr | Leu | Gln | Asp  | Pro | Ile | Trp | Arg | Gly  |  |  |
|     |     |     |     | 1100 |     |     |     |     | 1105 |     |     |     |     | 1110 |  |  |
| Pro | Pro | Pro | Thr | Asn  | Gly | Val | Met | His | Val  | Asp | Glu | Cys | Val | Glu  |  |  |
|     |     |     |     | 1115 |     |     |     |     | 1120 |     |     |     |     | 1125 |  |  |
| Phe | His | Arg | Leu | Trp  | Ser | Ala | Met | Gln | Phe  | Val | Tyr | Cys | Ile | Pro  |  |  |
|     |     |     |     | 1130 |     |     |     |     | 1135 |     |     |     |     | 1140 |  |  |
| Val | Gly | Thr | Asn | Glu  | Phe | Thr | Ala | Glu | Gln  | Cys | Phe | Gly | Asp | Gly  |  |  |
|     |     |     |     | 1145 |     |     |     |     | 1150 |     |     |     |     | 1155 |  |  |
| Leu | Asn | Trp | Ala | Gly  | Cys | Ser | Ile | Ile | Val  | Leu | Leu | Gly | Gln | Gln  |  |  |
|     |     |     |     | 1160 |     |     |     |     | 1165 |     |     |     |     | 1170 |  |  |
| Arg | Arg | Phe | Asp | Leu  | Phe | Asp | Phe | Cys | Tyr  | His | Leu | Leu | Lys | Val  |  |  |
|     |     |     |     | 1175 |     |     |     |     | 1180 |     |     |     |     | 1185 |  |  |
| Gln | Arg | Gln | Asp | Gly  | Lys | Asp | Glu | Ile | Ile  | Lys | Asn | Val | Pro | Leu  |  |  |
|     |     |     |     | 1190 |     |     |     |     | 1195 |     |     |     |     | 1200 |  |  |
| Lys | Lys | Met | Ala | Asp  | Arg | Ile | Arg | Lys | Tyr  | Gln | Ile | Leu | Asn | Asn  |  |  |
|     |     |     |     | 1205 |     |     |     |     | 1210 |     |     |     |     | 1215 |  |  |
| Glu | Val | Phe | Ala | Ile  | Leu | Asn | Lys | Tyr | Met  | Lys | Ser | Val | Glu | Thr  |  |  |
|     |     |     |     | 1220 |     |     |     |     | 1225 |     |     |     |     | 1230 |  |  |
| Asp | Ser | Ser | Thr | Val  | Glu | His | Val | Arg | Cys  | Phe | Gln | Pro | Pro | Ile  |  |  |
|     |     |     |     | 1235 |     |     |     |     | 1240 |     |     |     |     | 1245 |  |  |
| His | Gln | Ser | Leu | Ala  | Thr | Thr | Cys |     |      |     |     |     |     |      |  |  |
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<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2759876CD1

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| Met | Ser | Val | Asp | Met | Asn | Ser | Gln | Gly | Ser | Asp | Ser | Asn | Glu | Glu |  |  |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |  |  |
| Asp | Tyr | Asp | Pro | Asn | Cys | Glu | Glu | Glu | Glu | Glu | Glu | Glu | Glu | Asp |  |  |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |  |  |
| Asp | Pro | Gly | Asp | Ile | Glu | Asp | Tyr | Tyr | Val | Gly | Val | Ala | Ser | Asp |  |  |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |  |  |
| Val | Glu | Gln | Gln | Gly | Ala | Asp | Ala | Phe | Asp | Pro | Glu | Glu | Tyr | Gln |  |  |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |  |  |
| Phe | Thr | Cys | Leu | Thr | Tyr | Lys | Glu | Ser | Glu | Gly | Ala | Leu | Asn | Glu |  |  |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |  |  |
| His | Met | Thr | Ser | Leu | Ala | Ser | Val | Leu | Lys | Val | Ser | Ser | Val | Val |  |  |

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|     |     |     |     |     |     |     |     |  |    |  |  |  |  |    |
|-----|-----|-----|-----|-----|-----|-----|-----|--|----|--|--|--|--|----|
|     |     |     |     | 80  |     |     |     |  | 85 |  |  |  |  | 90 |
| Asn | Ser | Ser | Val | Ile | Pro | Pro | Ser |  |    |  |  |  |  |    |
|     |     |     |     | 95  |     |     |     |  |    |  |  |  |  |    |

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<212> PRT

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<220>

<221> misc\_feature

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Glu | Glu | Glu | Gln | Asp | Leu | Pro | Glu | Gln | Pro | Val | Lys | Lys | Ala |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Lys | Met | Gln | Glu | Ser | Gly | Glu | Gln | Thr | Ile | Ser | Gln | Val | Ser | Asn |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Pro | Asp | Val | Ser | Asp | Gln | Lys | Pro | Glu | Thr | Ser | Ser | Leu | Ala | Ser |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Asn | Leu | Pro | Met | Ser | Glu | Glu | Ile | Met | Thr | Cys | Thr | Asp | Tyr | Ile |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Pro | Arg | Ser | Ser | Asn | Asp | Tyr | Thr | Ser | Gln | Met | Tyr | Ser | Ala | Lys |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Pro | Tyr | Ala | His | Ile | Leu | Ser | Val | Pro | Val | Ser | Glu | Thr | Ala | Tyr |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Pro | Gly | Gln | Thr | Gln | Tyr | Gln | Thr | Leu | Gln | Gln | Thr | Gln | Pro | Tyr |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Ala | Val | Tyr | Pro | Gln | Ala | Thr | Gln | Thr | Tyr | Gly | Leu | Pro | Pro | Phe |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| Ala | Ser | Ser | Thr | Asn | Ala | Ser | Leu | Ile | Ser | Thr | Ser | Ser | Thr | Ile |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Ala | Asn | Ile | Pro | Ala | Ala | Ala | Val | Ala | Ser | Ile | Ser | Asn | Gln | Asp |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |
| Tyr | Pro | Thr | Tyr | Thr | Ile | Leu | Gly | Gln | Asn | Gln | Tyr | Gln | Ala | Cys |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |
| Tyr | Pro | Ser | Ser | Ser | Phe | Gly | Val | Thr | Gly | Gln | Thr | Asn | Ser | Asp |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |
| Ala | Glu | Ser | Thr | Thr | Leu | Ala | Ala | Thr | Thr | Tyr | Gln | Ser | Glu | Lys |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |
| Pro | Ser | Val | Met | Ala | Pro | Ala | Pro | Ala | Ala | Gln | Arg | Leu | Ser | Ser |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |
| Gly | Asp | Pro | Ser | Thr | Ser | Pro | Ser | Leu | Ser | Gln | Thr | Thr | Pro | Ser |
|     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |
| Lys | Asp | Thr | Asp | Asp | Gln | Ser | Arg | Lys | Asn | Met | Thr | Ser | Lys | Asn |
|     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Arg | Gly | Lys | Arg | Lys | Ala | Asp | Ala | Thr | Ser | Ser | Gln | Asp | Ser | Glu |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |
| Leu | Glu | Arg | Val | Phe | Leu | Trp | Asp | Leu | Asp | Glu | Thr | Ile | Ile | Ile |
|     |     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |
| Phe | His | Ser | Leu | Leu | Thr | Gly | Ser | Tyr | Ala | Gln | Lys | Tyr | Gly | Lys |
|     |     |     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |
| Asp | Pro | Thr | Val | Val | Ile | Gly | Ser | Gly | Leu | Thr | Met | Glu | Glu | Met |
|     |     |     |     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Phe | Glu | Val | Ala | Asp | Thr | His | Leu | Phe | Phe | Asn | Asp | Leu | Glu | 305 | 310 | 315 |
| Glu | Cys | Asp | Gln | Val | His | Val | Glu | Asp | Val | Ala | Ser | Asp | Asp | Asn | 320 | 325 | 330 |
| Gly | Gln | Asp | Leu | Ser | Asn | Tyr | Ser | Phe | Ser | Thr | Asp | Gly | Phe | Ser | 335 | 340 | 345 |
| Gly | Ser | Gly | Gly | Ser | Gly | Ser | His | Gly | Ser | Ser | Val | Gly | Val | Gln | 350 | 355 | 360 |
| Gly | Gly | Val | Asp | Trp | Met | Arg | Lys | Leu | Ala | Phe | Arg | Tyr | Arg | Lys | 365 | 370 | 375 |
| Val | Arg | Glu | Ile | Tyr | Asp | Lys | His | Lys | Ser | Asn | Val | Gly | Gly | Leu | 380 | 385 | 390 |
| Leu | Ser | Pro | Gln | Arg | Lys | Glu | Ala | Leu | Gln | Arg | Leu | Arg | Ala | Glu | 395 | 400 | 405 |
| Ile | Glu | Val | Leu | Thr | Asp | Ser | Trp | Leu | Gly | Thr | Ala | Leu | Lys | Ser | 410 | 415 | 420 |
| Leu | Leu | Leu | Ile | Gln | Ser | Arg | Lys | Asn | Cys | Val | Asn | Val | Leu | Ile | 425 | 430 | 435 |
| Thr | Thr | Thr | Gln | Leu | Val | Pro | Ala | Leu | Ala | Lys | Val | Leu | Leu | Tyr | 440 | 445 | 450 |
| Gly | Leu | Gly | Glu | Ile | Phe | Pro | Ile | Glu | Asn | Ile | Tyr | Ser | Ala | Thr | 455 | 460 | 465 |
| Lys | Ile | Gly | Lys | Glu | Ser | Cys | Phe | Glu | Arg | Ile | Val | Ser | Arg | Phe | 470 | 475 | 480 |
| Gly | Lys | Lys | Val | Thr | Tyr | Val | Val | Ile | Gly | Asp | Gly | Arg | Asp | Ala | 485 | 490 | 495 |
| Ala | Lys | Gln | His | Asn | Met | Pro | Phe | Trp | Arg | Ile | Thr | Asn | His | Gly | 500 | 505 | 510 |
| Asp | Leu | Val | Ser | Leu | His | Gln | Ala | Leu | Glu | Leu | Asp | Phe | Leu |     | 515 | 520 |     |

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<211> 628

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

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| Met | Ala | Ala | Ala | Gly | Ala | Gly | Pro | Gly | Gln | Glu | Ala | Gly | Ala | Gly | 1  | 5  | 10 | 15 |
| Pro | Gly | Pro | Gly | Ala | Val | Ala | Asn | Ala | Thr | Gly | Ala | Glu | Glu | Gly | 20 | 25 | 30 |    |
| Glu | Met | Lys | Pro | Val | Ala | Ala | Gly | Ala | Ala | Ala | Pro | Pro | Gly | Glu | 35 | 40 | 45 |    |
| Gly | Ile | Ser | Ala | Ala | Pro | Thr | Val | Glu | Pro | Ser | Ser | Gly | Glu | Ala | 50 | 55 | 60 |    |
| Glu | Gly | Gly | Glu | Ala | Asn | Leu | Val | Asp | Val | Ser | Gly | Gly | Leu | Glu | 65 | 70 | 75 |    |
| Thr | Glu | Ser | Ser | Asn | Gly | Lys | Asp | Thr | Leu | Glu | Gly | Ala | Gly | Asp | 80 | 85 | 90 |    |
| Thr | Ser | Glu | Val | Met | Asp | Thr | Gln | Ala | Gly | Ser | Val | Asp | Glu | Glu |    |    |    |    |

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Asn | Gly | Arg | Gln | Leu | Gly | Glu | Val | Glu | Leu | Gln | Cys | Gly | Ile | Cys |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| Thr | Lys | Trp | Phe | Thr | Ala | Asp | Thr | Phe | Gly | Ile | Asp | Thr | Ser | Ser |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Cys | Leu | Pro | Phe | Met | Thr | Asn | Tyr | Ser | Phe | His | Cys | Asn | Val | Cys |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |
| His | His | Ser | Gly | Asn | Thr | Tyr | Phe | Leu | Arg | Lys | Gln | Ala | Asn | Leu |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |
| Lys | Glu | Met | Cys | Leu | Ser | Ala | Leu | Ala | Asn | Leu | Thr | Trp | Gln | Ser |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |
| Arg | Thr | Gln | Asp | Glu | His | Pro | Lys | Thr | Met | Phe | Ser | Lys | Asp | Lys |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |
| Asp | Ile | Ile | Pro | Phe | Ile | Asp | Lys | Tyr | Trp | Glu | Cys | Met | Thr | Thr |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |
| Arg | Gln | Arg | Pro | Gly | Lys | Met | Thr | Trp | Pro | Asn | Asn | Ile | Val | Lys |
|     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |
| Thr | Met | Ser | Lys | Glu | Arg | Asp | Val | Phe | Leu | Val | Lys | Glu | His | Pro |
|     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Asp | Pro | Gly | Ser | Lys | Asp | Pro | Glu | Glu | Asp | Tyr | Pro | Lys | Phe | Gly |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |
| Leu | Leu | Asp | Gln | Asp | Leu | Ser | Asn | Ile | Gly | Pro | Ala | Tyr | Asp | Asn |
|     |     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |
| Gln | Lys | Gln | Ser | Ser | Ala | Val | Ser | Thr | Ser | Gly | Asn | Leu | Asn | Gly |
|     |     |     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |
| Gly | Ile | Ala | Ala | Gly | Ser | Ser | Gly | Lys | Gly | Arg | Gly | Ala | Lys | Arg |
|     |     |     |     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |
| Lys | Gln | Gln | Asp | Gly | Gly | Thr | Thr | Gly | Thr | Thr | Lys | Lys | Ala | Arg |
|     |     |     |     | 305 |     |     |     |     | 310 |     |     |     |     | 315 |
| Ser | Asp | Pro | Leu | Phe | Ser | Ala | Gln | Arg | Leu | Pro | Pro | His | Gly | Tyr |
|     |     |     |     | 320 |     |     |     |     | 325 |     |     |     |     | 330 |
| Pro | Leu | Glu | His | Pro | Phe | Asn | Lys | Asp | Gly | Tyr | Arg | Tyr | Ile | Leu |
|     |     |     |     | 335 |     |     |     |     | 340 |     |     |     |     | 345 |
| Ala | Glu | Pro | Asp | Pro | His | Ala | Pro | Asp | Pro | Glu | Lys | Leu | Glu | Leu |
|     |     |     |     | 350 |     |     |     |     | 355 |     |     |     |     | 360 |
| Asp | Cys | Trp | Ala | Gly | Lys | Pro | Ile | Pro | Gly | Asp | Leu | Tyr | Arg | Ala |
|     |     |     |     | 365 |     |     |     |     | 370 |     |     |     |     | 375 |
| Cys | Leu | Tyr | Glu | Arg | Val | Leu | Leu | Ala | Leu | His | Asp | Arg | Ala | Pro |
|     |     |     |     | 380 |     |     |     |     | 385 |     |     |     |     | 390 |
| Gln | Leu | Lys | Ile | Ser | Asp | Asp | Arg | Leu | Thr | Val | Val | Gly | Glu | Lys |
|     |     |     |     | 395 |     |     |     |     | 400 |     |     |     |     | 405 |
| Gly | Tyr | Ser | Met | Val | Arg | Ala | Ser | His | Gly | Val | Arg | Lys | Gly | Ala |
|     |     |     |     | 410 |     |     |     |     | 415 |     |     |     |     | 420 |
| Trp | Tyr | Phe | Glu | Ile | Thr | Val | Asp | Glu | Met | Pro | Pro | Asp | Thr | Ala |
|     |     |     |     | 425 |     |     |     |     | 430 |     |     |     |     | 435 |
| Ala | Arg | Leu | Gly | Trp | Ser | Gln | Pro | Leu | Gly | Asn | Leu | Gln | Ala | Pro |
|     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |     | 450 |
| Leu | Gly | Tyr | Asp | Lys | Phe | Ser | Tyr | Ser | Trp | Arg | Ser | Lys | Lys | Gly |
|     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     | 465 |
| Thr | Lys | Phe | His | Gln | Ser | Ile | Gly | Lys | His | Tyr | Ser | Ser | Gly | Tyr |
|     |     |     |     | 470 |     |     |     |     | 475 |     |     |     |     | 480 |
| Gly | Gln | Gly | Asp | Val | Leu | Gly | Phe | Tyr | Ile | Asn | Leu | Pro | Glu | Asp |
|     |     |     |     | 485 |     |     |     |     | 490 |     |     |     |     | 495 |
| Thr | Glu | Thr | Ala | Lys | Ser | Leu | Pro | Asp | Thr | Tyr | Lys | Asp | Lys | Ala |

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|                 |                     |                     |     |  |     |
|-----------------|---------------------|---------------------|-----|--|-----|
|                 | 500                 |                     | 505 |  | 510 |
| Leu Ile Lys Phe | Lys Ser Tyr Leu Tyr | Phe Glu Glu Lys Asp | Phe |  |     |
|                 | 515                 |                     | 520 |  | 525 |
| Val Asp Lys Ala | Glu Lys Ser Leu Lys | Gln Thr Pro His Ser | Glu |  |     |
|                 | 530                 |                     | 535 |  | 540 |
| Ile Ile Phe Tyr | Lys Asn Gly Val Asn | Gln Gly Val Ala Tyr | Lys |  |     |
|                 | 545                 |                     | 550 |  | 555 |
| Asp Ile Phe Glu | Gly Val Tyr Phe Pro | Ala Ile Ser Leu Tyr | Lys |  |     |
|                 | 560                 |                     | 565 |  | 570 |
| Ser Cys Thr Val | Ser Ile Asn Phe Gly | Pro Cys Phe Lys Tyr | Pro |  |     |
|                 | 575                 |                     | 580 |  | 585 |
| Pro Lys Asp Leu | Thr Tyr Arg Pro Met | Ser Asp Met Gly Trp | Gly |  |     |
|                 | 590                 |                     | 595 |  | 600 |
| Ala Val Val Glu | His Thr Leu Ala Asp | Val Leu Tyr His Val | Glu |  |     |
|                 | 605                 |                     | 610 |  | 615 |
| Thr Glu Val Asp | Gly Arg Arg Ser Pro | Pro Trp Glu Pro     |     |  |     |
|                 | 620                 |                     | 625 |  |     |

<210> 12

<211> 259

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2956153CD1

<400> 12

|                 |                     |                     |     |
|-----------------|---------------------|---------------------|-----|
| Met Asn Leu Val | Asp Leu Trp Leu Thr | Arg Ser Leu Ser Met | Cys |
| 1               | 5                   | 10                  | 15  |
| Leu Leu Leu Gln | Ser Phe Val Leu Met | Ile Leu Cys Phe His | Ser |
|                 | 20                  | 25                  | 30  |
| Ala Ser Met Cys | Pro Lys Gly Cys Leu | Cys Ser Ser Ser Gly | Gly |
|                 | 35                  | 40                  | 45  |
| Leu Asn Val Thr | Cys Ser Asn Ala Asn | Leu Lys Glu Ile Pro | Arg |
|                 | 50                  | 55                  | 60  |
| Asp Leu Pro Pro | Glu Thr Val Leu Leu | Tyr Leu Asp Ser Asn | Gln |
|                 | 65                  | 70                  | 75  |
| Ile Thr Ser Ile | Pro Asn Glu Ile Phe | Lys Asp Leu His Gln | Leu |
|                 | 80                  | 85                  | 90  |
| Arg Val Leu Asn | Leu Ser Lys Asn Gly | Ile Glu Phe Ile Asp | Glu |
|                 | 95                  | 100                 | 105 |
| His Ala Phe Lys | Gly Val Ala Glu Thr | Leu Gln Thr Leu Asp | Leu |
|                 | 110                 | 115                 | 120 |
| Ser Asp Asn Arg | Ile Gln Ser Val His | Lys Asn Ala Phe Asn | Asn |
|                 | 125                 | 130                 | 135 |
| Leu Lys Ala Arg | Ala Arg Ile Ala Asn | Asn Pro Trp His Cys | Asp |
|                 | 140                 | 145                 | 150 |
| Cys Thr Leu Gln | Gln Val Leu Arg Ser | Met Ala Ser Asn His | Glu |
|                 | 155                 | 160                 | 165 |
| Thr Ala His Asn | Val Ile Cys Lys Thr | Ser Val Leu Asp Glu | His |
|                 | 170                 | 175                 | 180 |
| Ala Gly Arg Pro | Phe Leu Asn Ala Ala | Asn Asp Ala Asp Leu | Cys |
|                 | 185                 | 190                 | 195 |

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Asn | Leu | Pro | Lys | Lys | Thr | Thr | Asp | Tyr | Ala | Met | Leu | Val | Thr | Met |  |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |  |
| Phe | Gly | Trp | Phe | Thr | Met | Val | Ile | Ser | Tyr | Val | Val | Tyr | Tyr | Val |  |
|     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |  |
| Arg | Gln | Asn | Gln | Glu | Asp | Ala | Arg | Arg | His | Leu | Glu | Tyr | Leu | Lys |  |
|     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |  |
| Ser | Leu | Pro | Ser | Arg | Gln | Lys | Lys | Ala | Asp | Glu | Pro | Asp | Asp | Ile |  |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |  |
| Ser | Thr | Val | Val |     |     |     |     |     |     |     |     |     |     |     |  |

<210> 13

<211> 380

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 3333139CD1

<400> 13

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Met | Ala | Ala | Pro | Trp | Trp | Arg | Ala | Ala | Leu | Cys | Glu | Cys | Arg | Arg |  |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |  |
| Trp | Arg | Gly | Phe | Ser | Thr | Ser | Ala | Val | Leu | Gly | Arg | Arg | Thr | Pro |  |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |  |
| Pro | Leu | Gly | Pro | Met | Pro | Asn | Ser | Asp | Ile | Asp | Leu | Ser | Asn | Leu |  |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |  |
| Glu | Arg | Leu | Glu | Lys | Tyr | Arg | Ser | Phe | Asp | Arg | Tyr | Arg | Arg | Arg |  |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |  |
| Ala | Glu | Gln | Glu | Ala | Gln | Ala | Pro | His | Trp | Trp | Arg | Thr | Tyr | Arg |  |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |  |
| Glu | Tyr | Phe | Gly | Glu | Lys | Thr | Asp | Pro | Lys | Glu | Lys | Ile | Asp | Ile |  |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |  |
| Gly | Leu | Pro | Pro | Pro | Lys | Val | Ser | Arg | Thr | Gln | Gln | Leu | Leu | Glu |  |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |  |
| Arg | Lys | Gln | Ala | Ile | Gln | Glu | Leu | Arg | Ala | Asn | Val | Glu | Glu | Glu |  |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |  |
| Arg | Ala | Ala | Arg | Leu | Arg | Thr | Ala | Ser | Val | Pro | Leu | Asp | Ala | Val |  |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |  |
| Arg | Ala | Glu | Trp | Glu | Arg | Thr | Cys | Gly | Pro | Tyr | His | Lys | Gln | Arg |  |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |  |
| Leu | Ala | Glu | Tyr | Tyr | Gly | Leu | Tyr | Arg | Asp | Leu | Phe | His | Gly | Ala |  |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |  |
| Thr | Phe | Val | Pro | Arg | Val | Pro | Leu | His | Val | Ala | Tyr | Ala | Val | Gly |  |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |  |
| Glu | Asp | Asp | Leu | Met | Pro | Val | Tyr | Cys | Gly | Asn | Glu | Val | Thr | Pro |  |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |  |
| Thr | Glu | Ala | Ala | Gln | Ala | Pro | Glu | Val | Thr | Tyr | Glu | Ala | Glu | Glu |  |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |  |
| Gly | Ser | Leu | Trp | Thr | Leu | Leu | Leu | Thr | Ser | Leu | Asp | Gly | His | Leu |  |
|     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |  |
| Leu | Glu | Pro | Asp | Ala | Glu | Tyr | Leu | His | Trp | Leu | Leu | Thr | Asn | Ile |  |
|     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |  |
| Pro | Gly | Asn | Arg | Val | Ala | Glu | Gly | Gln | Val | Thr | Cys | Pro | Tyr | Leu |  |

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|                 |                     |                     |     |  |     |
|-----------------|---------------------|---------------------|-----|--|-----|
|                 | 245                 |                     | 250 |  | 255 |
| Pro Pro Phe Pro | Ala Arg Gly Ser Gly | Ile His Arg Leu Ala | Phe |  |     |
|                 | 260                 |                     | 265 |  | 270 |
| Leu Leu Phe Lys | Gln Asp Gln Pro Ile | Asp Phe Ser Glu Asp | Ala |  |     |
|                 | 275                 |                     | 280 |  | 285 |
| Arg Pro Ser Pro | Cys Tyr Gln Leu Ala | Gln Arg Thr Phe Arg | Thr |  |     |
|                 | 290                 |                     | 295 |  | 300 |
| Phe Asp Phe Tyr | Lys Lys His Gln Glu | Thr Met Thr Pro Ala | Gly |  |     |
|                 | 305                 |                     | 310 |  | 315 |
| Leu Ser Phe Phe | Gln Cys Arg Trp Asp | Asp Ser Val Thr Tyr | Ile |  |     |
|                 | 320                 |                     | 325 |  | 330 |
| Phe His Gln Leu | Leu Asp Met Arg Glu | Pro Val Phe Glu Phe | Val |  |     |
|                 | 335                 |                     | 340 |  | 345 |
| Arg Pro Pro Pro | Tyr His Pro Lys Gln | Lys Arg Phe Pro His | Arg |  |     |
|                 | 350                 |                     | 355 |  | 360 |
| Gln Pro Leu Arg | Tyr Leu Asp Arg Tyr | Arg Asp Ser His Glu | Pro |  |     |
|                 | 365                 |                     | 370 |  | 375 |
| Thr Tyr Gly Ile | Tyr                 |                     |     |  |     |
|                 | 380                 |                     |     |  |     |

<210> 14

<211> 130

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 3432292CD1

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|---------------------|-----------------|---------------------|-----|
| Met Ser Cys Gln Gln | Asn Gln Gln Gln | Cys Gln Pro Pro Pro | Lys |
| 1                   | 5               | 10                  | 15  |
| Cys Pro Pro Lys Cys | Pro Pro Lys Cys | Pro Pro Lys Cys Arg | Pro |
|                     | 20              | 25                  | 30  |
| Gln Cys Pro Ala Pro | Cys Pro Pro Pro | Val Ser Ser Cys Cys | Gly |
|                     | 35              | 40                  | 45  |
| Pro Ser Ser Gly Gly | Cys Cys Gly Ser | Ser Ser Gly Gly Cys | Cys |
|                     | 50              | 55                  | 60  |
| Ser Ser Gly Gly Gly | Gly Cys Cys Leu | Ser His His Arg Pro | Arg |
|                     | 65              | 70                  | 75  |
| Leu Phe His Arg His | Arg His Gln Ser | Pro Asp Cys Cys Glu | Ser |
|                     | 80              | 85                  | 90  |
| Glu Leu Leu Gly Ala | Leu Ala Ala Ser | Thr Ala Leu Gly Thr | Ala |
|                     | 95              | 100                 | 105 |
| Ala Asp Gln Thr Ser | Asn Ile Thr Glu | Gln Ala Phe Met Glu | Lys |
|                     | 110             | 115                 | 120 |
| Thr Cys Lys Arg Gly | Thr Cys Pro Gln | Glu                 |     |
|                     | 125             | 130                 |     |

<210> 15

<211> 761

<212> PRT

<213> Homo sapiens

PF-0741 USN

<220>

<221> misc\_feature

<223> Incyte ID No: 3478571CD1

<400> 15

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ser | Leu | Arg | Ile | Asp | Val | Asp | Thr | Asn | Phe | Pro | Glu | Cys | Val |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Val | Asp | Ala | Gly | Lys | Val | Thr | Leu | Gly | Thr | Gln | Gln | Arg | Gln | Glu |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Met | Asp | Pro | Arg | Leu | Arg | Glu | Lys | Gln | Asn | Glu | Ile | Ile | Leu | Arg |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Ala | Val | Cys | Ala | Leu | Leu | Asn | Ser | Gly | Gly | Gly | Ile | Ile | Lys | Ala |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Glu | Ile | Glu | Asn | Lys | Gly | Tyr | Asn | Tyr | Glu | Arg | His | Gly | Val | Gly |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Leu | Asp | Val | Pro | Pro | Ile | Phe | Arg | Ser | His | Leu | Asp | Lys | Met | Gln |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Lys | Glu | Asn | His | Phe | Leu | Ile | Phe | Val | Lys | Ser | Trp | Asn | Thr | Glu |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Ala | Gly | Val | Pro | Leu | Ala | Thr | Leu | Cys | Ser | Asn | Leu | Tyr | His | Arg |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| Glu | Arg | Thr | Ser | Thr | Asp | Val | Met | Asp | Ser | Gln | Glu | Ala | Leu | Ala |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Phe | Leu | Lys | Cys | Arg | Thr | Gln | Thr | Pro | Thr | Asn | Ile | Asn | Val | Ser |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |
| Asn | Ser | Leu | Gly | Pro | Gln | Ala | Ala | Gln | Gly | Ser | Val | Gln | Tyr | Glu |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |
| Gly | Asn | Ile | Asn | Val | Ser | Ala | Ala | Ala | Leu | Phe | Asp | Arg | Lys | Arg |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |
| Leu | Gln | Tyr | Leu | Glu | Lys | Leu | Asn | Leu | Pro | Glu | Ser | Thr | His | Val |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |
| Glu | Phe | Val | Met | Phe | Ser | Thr | Asp | Val | Ser | His | Cys | Val | Lys | Asp |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |
| Arg | Leu | Pro | Lys | Cys | Val | Ser | Ala | Phe | Ala | Asn | Thr | Glu | Gly | Gly |
|     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |
| Tyr | Val | Phe | Phe | Gly | Val | His | Asp | Glu | Thr | Cys | Gln | Val | Ile | Gly |
|     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Cys | Glu | Lys | Glu | Lys | Ile | Asp | Leu | Thr | Ser | Leu | Arg | Ala | Ser | Ile |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |
| Asp | Gly | Cys | Ile | Lys | Lys | Leu | Pro | Val | His | His | Phe | Cys | Thr | Gln |
|     |     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |
| Arg | Pro | Glu | Ile | Lys | Tyr | Val | Leu | Asn | Phe | Leu | Glu | Val | His | Asp |
|     |     |     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |
| Lys | Gly | Ala | Leu | Arg | Gly | Tyr | Val | Cys | Ala | Ile | Lys | Val | Glu | Lys |
|     |     |     |     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |
| Phe | Cys | Cys | Ala | Val | Phe | Ala | Lys | Val | Pro | Ser | Ser | Trp | Gln | Val |
|     |     |     |     | 305 |     |     |     |     | 310 |     |     |     |     | 315 |
| Lys | Asp | Asn | Arg | Val | Arg | Gln | Leu | Pro | Thr | Arg | Glu | Trp | Thr | Ala |
|     |     |     |     | 320 |     |     |     |     | 325 |     |     |     |     | 330 |
| Trp | Met | Met | Glu | Ala | Asp | Pro | Asp | Leu | Ser | Arg | Cys | Pro | Glu | Met |
|     |     |     |     | 335 |     |     |     |     | 340 |     |     |     |     | 345 |
| Val | Leu | Gln | Leu | Ser | Leu | Ser | Ser | Ala | Thr | Pro | Arg | Ser | Lys | Pro |
|     |     |     |     | 350 |     |     |     |     | 355 |     |     |     |     | 360 |
| Val | Cys | Ile | His | Lys | Asn | Ser | Glu | Cys | Leu | Lys | Glu | Gln | Gln | Lys |



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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|     |     |     |     | 365 |     |     |     |     | 370 |     |     |     |     | 375 |
| Arg | Tyr | Phe | Pro | Val | Phe | Ser | Asp | Arg | Val | Val | Tyr | Thr | Pro | Glu |
|     |     |     |     | 380 |     |     |     |     | 385 |     |     |     |     | 390 |
| Ser | Leu | Tyr | Lys | Glu | Leu | Phe | Ser | Gln | His | Lys | Gly | Leu | Arg | Asp |
|     |     |     |     | 395 |     |     |     |     | 400 |     |     |     |     | 405 |
| Leu | Ile | Asn | Thr | Glu | Met | Arg | Pro | Phe | Ser | Gln | Gly | Ile | Leu | Ile |
|     |     |     |     | 410 |     |     |     |     | 415 |     |     |     |     | 420 |
| Phe | Ser | Gln | Ser | Trp | Ala | Val | Asp | Leu | Gly | Leu | Gln | Glu | Lys | Gln |
|     |     |     |     | 425 |     |     |     |     | 430 |     |     |     |     | 435 |
| Gly | Val | Ile | Cys | Asp | Ala | Leu | Leu | Ile | Ser | Gln | Asn | Asn | Thr | Pro |
|     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |     | 450 |
| Ile | Leu | Tyr | Thr | Ile | Phe | Ser | Lys | Trp | Asp | Ala | Gly | Cys | Lys | Gly |
|     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     | 465 |
| Tyr | Ser | Met | Ile | Val | Ala | Tyr | Ser | Leu | Lys | Gln | Lys | Leu | Val | Asn |
|     |     |     |     | 470 |     |     |     |     | 475 |     |     |     |     | 480 |
| Lys | Gly | Gly | Tyr | Thr | Gly | Arg | Leu | Cys | Ile | Thr | Pro | Leu | Val | Cys |
|     |     |     |     | 485 |     |     |     |     | 490 |     |     |     |     | 495 |
| Val | Leu | Asn | Ser | Asp | Arg | Lys | Ala | Gln | Ser | Val | Tyr | Ser | Ser | Tyr |
|     |     |     |     | 500 |     |     |     |     | 505 |     |     |     |     | 510 |
| Leu | Gln | Ile | Tyr | Pro | Glu | Ser | Tyr | Asn | Phe | Met | Thr | Pro | Gln | His |
|     |     |     |     | 515 |     |     |     |     | 520 |     |     |     |     | 525 |
| Met | Glu | Ala | Leu | Leu | Gln | Ser | Leu | Val | Ile | Val | Leu | Leu | Gly | Phe |
|     |     |     |     | 530 |     |     |     |     | 535 |     |     |     |     | 540 |
| Lys | Ser | Phe | Leu | Ser | Glu | Glu | Leu | Gly | Ser | Glu | Val | Leu | Asn | Leu |
|     |     |     |     | 545 |     |     |     |     | 550 |     |     |     |     | 555 |
| Leu | Thr | Asn | Lys | Gln | Tyr | Glu | Leu | Leu | Ser | Lys | Asn | Leu | Arg | Lys |
|     |     |     |     | 560 |     |     |     |     | 565 |     |     |     |     | 570 |
| Thr | Arg | Glu | Leu | Phe | Val | His | Gly | Leu | Pro | Gly | Ser | Gly | Lys | Thr |
|     |     |     |     | 575 |     |     |     |     | 580 |     |     |     |     | 585 |
| Ile | Leu | Ala | Leu | Arg | Ile | Met | Glu | Lys | Ile | Arg | Asn | Val | Phe | His |
|     |     |     |     | 590 |     |     |     |     | 595 |     |     |     |     | 600 |
| Cys | Glu | Pro | Ala | Asn | Ile | Leu | Tyr | Ile | Cys | Glu | Asn | Gln | Pro | Leu |
|     |     |     |     | 605 |     |     |     |     | 610 |     |     |     |     | 615 |
| Lys | Lys | Leu | Val | Ser | Phe | Ser | Lys | Lys | Asn | Ile | Cys | Gln | Pro | Val |
|     |     |     |     | 620 |     |     |     |     | 625 |     |     |     |     | 630 |
| Thr | Arg | Lys | Thr | Phe | Met | Lys | Asn | Asn | Phe | Glu | His | Ile | Gln | His |
|     |     |     |     | 635 |     |     |     |     | 640 |     |     |     |     | 645 |
| Ile | Ile | Ile | Asp | Asp | Ala | Gln | Asn | Phe | Arg | Thr | Glu | Asp | Gly | Asp |
|     |     |     |     | 650 |     |     |     |     | 655 |     |     |     |     | 660 |
| Trp | Tyr | Gly | Lys | Ala | Lys | Phe | Ile | Thr | Gln | Thr | Ala | Arg | Asp | Gly |
|     |     |     |     | 665 |     |     |     |     | 670 |     |     |     |     | 675 |
| Pro | Gly | Val | Leu | Trp | Ile | Phe | Leu | Asp | Tyr | Phe | Gln | Thr | Tyr | His |
|     |     |     |     | 680 |     |     |     |     | 685 |     |     |     |     | 690 |
| Leu | Ser | Cys | Ser | Gly | Leu | Pro | Pro | Pro | Ser | Asp | Gln | Tyr | Pro | Arg |
|     |     |     |     | 695 |     |     |     |     | 700 |     |     |     |     | 705 |
| Glu | Glu | Ile | Asn | Arg | Val | Val | Arg | Asn | Ala | Gly | Pro | Ile | Ala | Asn |
|     |     |     |     | 710 |     |     |     |     | 715 |     |     |     |     | 720 |
| Tyr | Leu | Gln | Gln | Val | Met | Gln | Glu | Ala | Arg | Gln | Asn | Pro | Pro | Pro |
|     |     |     |     | 725 |     |     |     |     | 730 |     |     |     |     | 735 |
| Asn | Leu | Pro | Pro | Gly | Ser | Leu | Val | Met | Leu | Tyr | Glu | Pro | Lys | Trp |
|     |     |     |     | 740 |     |     |     |     | 745 |     |     |     |     | 750 |
| Ala | Gln | Gly | Cys | Pro | Arg | Gln | Leu | Arg | Asp | Tyr |     |     |     |     |
|     |     |     |     | 755 |     |     |     |     | 760 |     |     |     |     |     |

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<210> 16

<211> 197

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 3495166CD1

<400> 16

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ser | Ser | Ala | Pro | Ala | Ser | Gly | Pro | Ala | Pro | Ala | Ser | Leu | Thr |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Leu | Trp | Asp | Glu | Glu | Asp | Phe | Gln | Gly | Arg | Arg | Cys | Arg | Leu | Leu |
|     |     |     | 20  |     |     |     |     |     | 25  |     |     |     |     | 30  |
| Ser | Asp | Cys | Ala | Asn | Val | Cys | Glu | Arg | Gly | Gly | Leu | Pro | Arg | Val |
|     |     |     | 35  |     |     |     |     |     | 40  |     |     |     |     | 45  |
| Arg | Ser | Val | Lys | Val | Glu | Asn | Gly | Val | Trp | Val | Ala | Phe | Glu | Tyr |
|     |     |     | 50  |     |     |     |     |     | 55  |     |     |     |     | 60  |
| Pro | Asp | Phe | Gln | Gly | Gln | Gln | Phe | Ile | Leu | Glu | Lys | Gly | Asp | Tyr |
|     |     |     | 65  |     |     |     |     |     | 70  |     |     |     |     | 75  |
| Pro | Arg | Trp | Ser | Ala | Trp | Ser | Gly | Ser | Ser | Ser | His | Asn | Ser | Asn |
|     |     |     | 80  |     |     |     |     |     | 85  |     |     |     |     | 90  |
| Gln | Leu | Leu | Ser | Phe | Arg | Pro | Val | Leu | Cys | Ala | Asn | His | Asn | Asp |
|     |     |     | 95  |     |     |     |     |     | 100 |     |     |     |     | 105 |
| Ser | Arg | Val | Thr | Leu | Phe | Glu | Gly | Asp | Asn | Phe | Gln | Gly | Cys | Lys |
|     |     |     | 110 |     |     |     |     |     | 115 |     |     |     |     | 120 |
| Phe | Asp | Leu | Val | Asp | Asp | Tyr | Pro | Ser | Leu | Pro | Ser | Met | Gly | Trp |
|     |     |     | 125 |     |     |     |     |     | 130 |     |     |     |     | 135 |
| Ala | Ser | Lys | Asp | Val | Gly | Ser | Leu | Lys | Val | Ser | Ser | Gly | Ala | Trp |
|     |     |     | 140 |     |     |     |     |     | 145 |     |     |     |     | 150 |
| Val | Ala | Tyr | Gln | Tyr | Pro | Gly | Tyr | Arg | Gly | Tyr | Gln | Tyr | Val | Leu |
|     |     |     | 155 |     |     |     |     |     | 160 |     |     |     |     | 165 |
| Glu | Arg | Asp | Arg | His | Ser | Gly | Glu | Phe | Cys | Thr | Tyr | Gly | Glu | Leu |
|     |     |     | 170 |     |     |     |     |     | 175 |     |     |     |     | 180 |
| Gly | Thr | Gln | Ala | His | Thr | Gly | Gln | Leu | Gln | Ser | Ile | Arg | Arg | Val |
|     |     |     | 185 |     |     |     |     |     | 190 |     |     |     |     | 195 |
| Gln | His |     |     |     |     |     |     |     |     |     |     |     |     |     |

<210> 17

<211> 339

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 3554748CD1

<400> 17

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Pro | Glu | Cys | Trp | Asp | Gly | Glu | His | Asp | Ile | Glu | Thr | Pro | Tyr |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Gly | Leu | Leu | His | Val | Val | Ile | Arg | Gly | Ser | Pro | Lys | Gly | Asn | Arg |
|     |     |     | 20  |     |     |     |     |     | 25  |     |     |     |     | 30  |
| Pro | Ala | Ile | Leu | Thr | Tyr | His | Asp | Val | Gly | Leu | Asn | His | Lys | Leu |

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Cys | Phe | Asn | Thr | Phe | Phe | Asn | Phe | Glu | Asp | Met | Gln | Glu | Ile | Thr |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Lys | His | Phe | Val | Val | Cys | His | Val | Asp | Ala | Pro | Gly | Gln | Gln | Val |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Gly | Ala | Ser | Gln | Phe | Pro | Gln | Gly | Tyr | Gln | Phe | Pro | Ser | Met | Glu |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Gln | Leu | Ala | Ala | Met | Leu | Pro | Ser | Val | Val | Gln | His | Phe | Gly | Phe |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Lys | Tyr | Val | Ile | Gly | Ile | Gly | Val | Gly | Ala | Gly | Ala | Tyr | Val | Leu |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| Ala | Lys | Phe | Ala | Leu | Ile | Phe | Pro | Asp | Leu | Val | Glu | Gly | Leu | Val |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Leu | Val | Asn | Ile | Asp | Pro | Asn | Gly | Lys | Gly | Trp | Ile | Asp | Trp | Ala |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |
| Ala | Thr | Lys | Leu | Ser | Gly | Leu | Thr | Ser | Thr | Leu | Pro | Asp | Thr | Val |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |
| Leu | Ser | His | Leu | Phe | Ser | Gln | Glu | Glu | Leu | Val | Asn | Asn | Thr | Glu |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |
| Leu | Val | Gln | Ser | Tyr | Arg | Gln | Gln | Ile | Gly | Asn | Val | Val | Asn | Gln |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |
| Ala | Asn | Leu | Gln | Leu | Phe | Trp | Asn | Met | Tyr | Asn | Ser | Arg | Arg | Asp |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |
| Leu | Asp | Ile | Asn | Arg | Pro | Gly | Thr | Val | Pro | Asn | Ala | Lys | Thr | Leu |
|     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |
| Arg | Cys | Pro | Val | Met | Leu | Val | Val | Gly | Asp | Asn | Ala | Pro | Ala | Glu |
|     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Asp | Gly | Val | Val | Glu | Cys | Asn | Ser | Lys | Leu | Asp | Pro | Thr | Thr | Thr |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |
| Thr | Phe | Leu | Lys | Met | Ala | Asp | Ser | Gly | Gly | Leu | Pro | Gln | Val | Thr |
|     |     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |
| Gln | Pro | Gly | Lys | Leu | Thr | Glu | Ala | Phe | Lys | Tyr | Phe | Leu | Gln | Gly |
|     |     |     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |
| Met | Gly | Tyr | Met | Pro | Ser | Ala | Ser | Met | Thr | Arg | Leu | Ala | Arg | Ser |
|     |     |     |     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |
| Arg | Thr | Ala | Ser | Leu | Thr | Ser | Ala | Ser | Ser | Val | Asp | Gly | Ser | Arg |
|     |     |     |     | 305 |     |     |     |     | 310 |     |     |     |     | 315 |
| Pro | Gln | Ala | Cys | Thr | His | Ser | Glu | Ser | Ser | Glu | Gly | Leu | Gly | Gln |
|     |     |     |     | 320 |     |     |     |     | 325 |     |     |     |     | 330 |
| Val | Asn | His | Thr | Met | Glu | Val | Ser | Cys |     |     |     |     |     |     |
|     |     |     |     | 335 |     |     |     |     |     |     |     |     |     |     |

<210> 18

<211> 109

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

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<220>

<221> unsure

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PF-0741 USN

<223> unknown or other

<400> 18

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Glu | Arg | Gln | Gln | Gln | Gln | Gln | Gln | Gln | Leu | Arg | Asn | Leu | Arg |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Asp | Phe | Leu | Leu | Val | Tyr | Asn | Arg | Met | Thr | Glu | Leu | Cys | Phe | Gln |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Arg | Cys | Val | Pro | Ser | Leu | His | His | Arg | Ala | Leu | Asp | Ala | Glu | Glu |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Glu | Ala | Cys | Val | Pro | Ser | Cys | Ala | Gly | Lys | Leu | Ile | His | Ser | Asn |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| His | Arg | Leu | Met | Ala | Ala | Tyr | Val | Gln | Leu | Met | Pro | Ala | Leu | Val |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Gln | Arg | Arg | Ile | Ala | Asp | Tyr | Glu | Ala | Ala | Ser | Ala | Val | Pro | Gly |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Val | Ala | Ala | Glu | Gln | Pro | Gly | Val | Ser | Pro | Ser | Gly | Ser | Ser | Asp |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Xaa | Xaa | Xaa | Xaa |     |     |     |     |     |     |     |     |     |     |     |

<210> 19

<211> 131

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 639636CD1

<400> 19

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Thr | Lys | Lys | Lys | Val | Ser | Gln | Lys | Lys | Gln | Arg | Gly | Arg | Pro |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Ser | Ser | Gln | Pro | Arg | Arg | Asn | Ile | Val | Gly | Cys | Arg | Ile | Ser | His |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Gly | Trp | Lys | Glu | Gly | Asp | Glu | Pro | Ile | Thr | Gln | Trp | Lys | Gly | Thr |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Val | Leu | Asp | Gln | Leu | Leu | Asp | Asp | Tyr | Lys | Glu | Gly | Asp | Leu | Arg |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Ile | Met | Pro | Glu | Ser | Ser | Glu | Ser | Pro | Pro | Thr | Glu | Arg | Glu | Pro |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Gly | Gly | Val | Val | Asp | Gly | Leu | Ile | Gly | Lys | His | Val | Glu | Tyr | Thr |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Lys | Glu | Asp | Gly | Ser | Lys | Arg | Ile | Gly | Met | Val | Ile | His | Gln | Val |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Glu | Ala | Lys | Pro | Ser | Val | Tyr | Phe | Ile | Lys | Phe | Asp | Asp | Asp | Phe |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| His | Ile | Tyr | Val | Tyr | Asp | Leu | Val | Lys | Lys | Ser |     |     |     |     |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     |     |

<210> 20

<211> 194

<212> PRT

<213> Homo sapiens

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<220>

<221> misc\_feature

<223> Incyte ID No: 902218CD1

<400> 20

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Met | Gly | Ala | Asn | Gln | Leu | Val | Val | Leu | Asn | Val | Tyr | Asp | Met | Tyr |  |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |  |
| Trp | Met | Asn | Glu | Tyr | Thr | Ser | Ser | Ile | Gly | Ile | Gly | Val | Phe | His |  |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |  |
| Ser | Gly | Ile | Glu | Val | Tyr | Gly | Arg | Glu | Phe | Ala | Tyr | Gly | Gly | His |  |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |  |
| Pro | Tyr | Pro | Phe | Ser | Gly | Ile | Phe | Glu | Ile | Ser | Pro | Gly | Asn | Ala |  |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |  |
| Ser | Glu | Leu | Gly | Glu | Thr | Phe | Lys | Phe | Lys | Glu | Ala | Val | Val | Leu |  |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |  |
| Gly | Ser | Thr | Asp | Phe | Leu | Glu | Asp | Asp | Ile | Glu | Lys | Ile | Val | Glu |  |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |  |
| Glu | Leu | Gly | Lys | Glu | Tyr | Lys | Gly | Asn | Ala | Tyr | His | Leu | Met | His |  |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |  |
| Lys | Asn | Cys | Asn | His | Phe | Ser | Ser | Ala | Leu | Ser | Glu | Ile | Leu | Cys |  |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |  |
| Gly | Lys | Glu | Ile | Pro | Arg | Trp | Ile | Asn | Arg | Leu | Ala | Tyr | Phe | Ser |  |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |  |
| Ser | Cys | Ile | Pro | Phe | Leu | Gln | Ser | Cys | Leu | Pro | Lys | Glu | Trp | Leu |  |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |  |
| Thr | Pro | Ala | Ala | Leu | Gln | Ser | Ser | Val | Ser | Gln | Glu | Leu | Gln | Asp |  |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |  |
| Glu | Leu | Glu | Glu | Ala | Glu | Asp | Ala | Ala | Ala | Ser | Ala | Ser | Val | Ala |  |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |  |
| Ser | Thr | Ala | Ala | Gly | Ser | Arg | Pro | Gly | Arg | His | Thr | Lys | Leu |     |  |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     |     |  |

<210> 21

<211> 184

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1360522CD1

<400> 21

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Met | Ala | Thr | Ala | Leu | Ala | Leu | Arg | Ser | Leu | Tyr | Arg | Ala | Arg | Pro |  |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |  |
| Ser | Leu | Arg | Cys | Pro | Pro | Val | Glu | Leu | Pro | Trp | Ala | Pro | Arg | Arg |  |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |  |
| Gly | His | Arg | Leu | Ser | Pro | Ala | Asp | Asp | Glu | Leu | Tyr | Gln | Arg | Thr |  |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |  |
| Arg | Ile | Ser | Leu | Leu | Gln | Arg | Glu | Ala | Ala | Gln | Ala | Met | Tyr | Ile |  |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |  |
| Asp | Ser | Tyr | Asn | Ser | Arg | Gly | Phe | Met | Ile | Asn | Gly | Asn | Arg | Val |  |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |  |
| Leu | Gly | Pro | Cys | Ala | Leu | Leu | Pro | His | Ser | Val | Val | Gln | Trp | Asn |  |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |  |

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Val | Gly | Ser | His | Gln | Asp | Ile | Thr | Glu | Asp | Ser | Phe | Ser | Leu | Phe |  |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |  |
| Trp | Leu | Leu | Glu | Pro | Arg | Ile | Glu | Ile | Val | Val | Val | Gly | Thr | Gly |  |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |  |
| Asp | Arg | Thr | Glu | Arg | Leu | Gln | Ser | Gln | Val | Leu | Gln | Ala | Met | Arg |  |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |  |
| Gln | Arg | Gly | Ile | Ala | Val | Glu | Val | Gln | Asp | Thr | Pro | Asn | Ala | Cys |  |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |  |
| Ala | Thr | Phe | Asn | Phe | Leu | Cys | His | Glu | Gly | Arg | Val | Thr | Gly | Ala |  |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |  |
| Ala | Leu | Ile | Pro | Pro | Pro | Gly | Gly | Thr | Ser | Leu | Thr | Ser | Leu | Gly |  |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |  |
| Gln | Ala | Ala | Gln |     |     |     |     |     |     |     |     |     |     |     |  |

<210> 22

<211> 528

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1400678CD1

<400> 22

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Met | Ala | Ser | Met | Arg | Glu | Ser | Asp | Thr | Gly | Leu | Trp | Leu | His | Asn |  |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |  |
| Lys | Leu | Gly | Ala | Thr | Asp | Glu | Leu | Trp | Ala | Pro | Pro | Ser | Ile | Ala |  |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |  |
| Ser | Leu | Leu | Thr | Ala | Ala | Val | Ile | Asp | Asn | Ile | Arg | Leu | Cys | Phe |  |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |  |
| His | Gly | Leu | Ser | Ser | Ala | Val | Lys | Leu | Lys | Leu | Leu | Leu | Gly | Thr |  |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |  |
| Leu | His | Leu | Pro | Arg | Arg | Thr | Val | Asp | Glu | Met | Lys | Gly | Ala | Leu |  |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |  |
| Met | Glu | Ile | Ile | Gln | Leu | Ala | Ser | Leu | Asp | Ser | Asp | Pro | Trp | Val |  |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |  |
| Leu | Met | Val | Ala | Asp | Ile | Leu | Lys | Ser | Phe | Pro | Asp | Thr | Gly | Ser |  |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |  |
| Leu | Asn | Leu | Glu | Leu | Glu | Glu | Gln | Asn | Pro | Asn | Val | Gln | Asp | Ile |  |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |  |
| Leu | Gly | Glu | Leu | Arg | Glu | Lys | Val | Gly | Glu | Cys | Glu | Ala | Ser | Ala |  |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |  |
| Met | Leu | Pro | Leu | Glu | Cys | Gln | Tyr | Leu | Asn | Lys | Asn | Ala | Leu | Thr |  |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |  |
| Thr | Leu | Ala | Gly | Pro | Leu | Thr | Pro | Pro | Val | Lys | His | Phe | Gln | Leu |  |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |  |
| Lys | Arg | Lys | Pro | Lys | Ser | Ala | Thr | Leu | Arg | Ala | Glu | Leu | Leu | Gln |  |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |  |
| Lys | Ser | Thr | Glu | Thr | Ala | Gln | Gln | Leu | Lys | Arg | Ser | Ala | Gly | Val |  |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |  |
| Pro | Phe | His | Ala | Lys | Gly | Arg | Gly | Leu | Leu | Arg | Lys | Met | Asp | Thr |  |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |  |
| Thr | Thr | Pro | Leu | Lys | Gly | Ile | Pro | Lys | Gln | Ala | Pro | Phe | Arg | Ser |  |

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|                 |                     |                     |     |  |     |
|-----------------|---------------------|---------------------|-----|--|-----|
|                 | 215                 |                     | 220 |  | 225 |
| Pro Thr Ala Pro | Ser Val Phe Ser Pro | Thr Gly Asn Arg Thr | Pro |  |     |
|                 | 230                 |                     | 235 |  | 240 |
| Ile Pro Pro Ser | Arg Thr Leu Leu Arg | Lys Glu Arg Gly Val | Lys |  |     |
|                 | 245                 |                     | 250 |  | 255 |
| Leu Leu Asp Ile | Ser Glu Leu Asp Met | Val Gly Ala Gly Arg | Glu |  |     |
|                 | 260                 |                     | 265 |  | 270 |
| Ala Lys Arg Arg | Arg Lys Thr Leu Asp | Ala Glu Val Val Glu | Lys |  |     |
|                 | 275                 |                     | 280 |  | 285 |
| Pro Ala Lys Glu | Glu Thr Val Val Glu | Asn Ala Thr Pro Asp | Tyr |  |     |
|                 | 290                 |                     | 295 |  | 300 |
| Ala Ala Gly Leu | Val Ser Thr Gln Lys | Leu Gly Ser Leu Asn | Asn |  |     |
|                 | 305                 |                     | 310 |  | 315 |
| Glu Pro Ala Leu | Pro Ser Thr Ser Tyr | Leu Pro Ser Thr Pro | Ser |  |     |
|                 | 320                 |                     | 325 |  | 330 |
| Val Val Pro Ala | Ser Ser Tyr Ile Pro | Ser Ser Glu Thr Pro | Pro |  |     |
|                 | 335                 |                     | 340 |  | 345 |
| Ala Pro Ser Ser | Arg Glu Ala Ser Arg | Pro Pro Glu Glu Pro | Ser |  |     |
|                 | 350                 |                     | 355 |  | 360 |
| Ala Pro Ser Pro | Thr Leu Pro Ala Gln | Phe Lys Gln Arg Ala | Pro |  |     |
|                 | 365                 |                     | 370 |  | 375 |
| Met Tyr Asn Ser | Gly Leu Ser Pro Ala | Thr Pro Thr Pro Ala | Ala |  |     |
|                 | 380                 |                     | 385 |  | 390 |
| Pro Thr Ser Pro | Leu Thr Pro Thr Thr | Pro Pro Ala Val Ala | Pro |  |     |
|                 | 395                 |                     | 400 |  | 405 |
| Thr Thr Gln Thr | Pro Pro Val Ala Met | Val Ala Pro Gln Thr | Gln |  |     |
|                 | 410                 |                     | 415 |  | 420 |
| Ala Pro Ala Gln | Gln Gln Pro Lys Lys | Asn Leu Ser Leu Thr | Arg |  |     |
|                 | 425                 |                     | 430 |  | 435 |
| Glu Gln Met Phe | Ala Ala Gln Glu Met | Phe Lys Thr Ala Asn | Lys |  |     |
|                 | 440                 |                     | 445 |  | 450 |
| Val Thr Arg Pro | Glu Lys Ala Leu Ile | Leu Gly Phe Met Ala | Gly |  |     |
|                 | 455                 |                     | 460 |  | 465 |
| Ser Arg Glu Asn | Pro Cys Gln Glu Gln | Gly Asp Val Ile Gln | Ile |  |     |
|                 | 470                 |                     | 475 |  | 480 |
| Lys Leu Ser Glu | His Thr Glu Asp Leu | Pro Lys Ala Asp Gly | Gln |  |     |
|                 | 485                 |                     | 490 |  | 495 |
| Gly Ser Thr Thr | Met Leu Val Asp Thr | Val Phe Glu Met Asn | Tyr |  |     |
|                 | 500                 |                     | 505 |  | 510 |
| Ala Thr Gly Gln | Trp Thr Arg Phe Lys | Lys Tyr Lys Pro Met | Thr |  |     |
|                 | 515                 |                     | 520 |  | 525 |
| Asn Val Ser     |                     |                     |     |  |     |

<210> 23

<211> 298

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1435556CD1

<400> 23

PF-0741 USN

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Thr | Thr | Ile | Tyr | Asp | Leu | Lys | Lys | Gln | Lys | Asp | Lys | Leu | Leu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Lys | Phe | Tyr | Ala | Glu | Ser | Asp | Glu | Gln | Ile | Leu | Met | Lys | Asn | Arg |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Lys | Thr | Leu | His | Lys | Ala | Lys | Asn | Glu | Asp | Leu | Asp | Arg | Val | Leu |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Lys | Glu | Trp | Ile | Arg | Gln | Arg | Arg | Ser | Glu | His | Met | Pro | Leu | Asn |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Gly | Met | Leu | Ile | Met | Lys | Gln | Ala | Lys | Ile | Tyr | His | Asn | Glu | Leu |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Lys | Ile | Glu | Gly | Asn | Cys | Glu | Tyr | Ser | Thr | Gly | Trp | Leu | Gln | Lys |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Phe | Lys | Lys | Arg | His | Gly | Ile | Lys | Phe | Leu | Lys | Thr | Cys | Gly | Asn |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Lys | Ala | Ser | Ala | Gly | His | Glu | Ala | Thr | Glu | Lys | Phe | Thr | Gly | Asn |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| Phe | Ser | Asn | Asp | Asp | Glu | Gln | Asp | Gly | Asn | Phe | Glu | Gly | Phe | Ser |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Met | Ser | Ser | Glu | Lys | Lys | Ile | Met | Ser | Asp | Leu | Leu | Thr | Tyr | Thr |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |
| Lys | Asn | Ile | His | Pro | Glu | Thr | Val | Ser | Lys | Leu | Glu | Glu | Glu | Asp |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |
| Ile | Lys | Asp | Val | Phe | Asn | Ser | Asn | Asn | Glu | Ala | Pro | Val | Val | His |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |
| Ser | Leu | Ser | Asn | Gly | Glu | Val | Thr | Lys | Met | Val | Leu | Asn | Gln | Asp |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |
| Asp | His | Asp | Asp | Asn | Asp | Asn | Glu | Asp | Asp | Val | Asn | Thr | Ala | Glu |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |
| Lys | Val | Pro | Ile | Asp | Asp | Met | Val | Lys | Met | Cys | Asp | Gly | Leu | Ile |
|     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |
| Lys | Gly | Leu | Glu | Gln | His | Ala | Phe | Ile | Thr | Glu | Gln | Glu | Ile | Met |
|     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Ser | Val | Tyr | Lys | Ile | Lys | Glu | Arg | Leu | Leu | Arg | Gln | Lys | Ala | Ser |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |
| Leu | Met | Arg | Gln | Met | Thr | Leu | Lys | Glu | Thr | Phe | Lys | Lys | Ala | Ile |
|     |     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |
| Gln | Arg | Asn | Ala | Ser | Ser | Ser | Leu | Gln | Asp | Pro | Leu | Leu | Gly | Pro |
|     |     |     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |
| Ser | Thr | Ala | Ser | Asp | Ala | Ser | Ser | His | Leu | Lys | Ile | Lys |     |     |
|     |     |     |     | 290 |     |     |     |     | 295 |     |     |     |     |     |

<210> 24

<211> 630

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1546633CD1

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Pro | Gln | Gln | Gln | His | Lys | Val | Ser | Pro | Ala | Ser | Glu | Ser | Pro |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Phe | Ser | Glu | Glu | Glu | Ser | Arg | Glu | Phe | Asn | Pro | Ser | Ser | Ser | Gly |



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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     | 30  |     |
| Arg | Ser | Ala | Arg | Thr | Val | Ser | Ser | Asn | Ser | Phe | Cys | Ser | Asp | Asp |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Thr | Gly | Cys | Pro | Ser | Ser | Gln | Ser | Val | Ser | Pro | Val | Lys | Thr | Pro |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Ser | Asp | Ala | Gly | Asn | Ser | Pro | Ile | Gly | Phe | Cys | Pro | Gly | Ser | Asp |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Glu | Gly | Phe | Thr | Arg | Lys | Lys | Cys | Thr | Ile | Gly | Met | Val | Gly | Glu |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Gly | Ser | Ile | Gln | Ser | Ser | Arg | Tyr | Lys | Lys | Glu | Ser | Lys | Ser | Gly |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Leu | Val | Lys | Pro | Gly | Ser | Glu | Ala | Asp | Phe | Ser | Ser | Ser | Ser | Ser |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| Thr | Gly | Ser | Ile | Ser | Ala | Pro | Glu | Val | His | Met | Ser | Thr | Ala | Gly |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Ser | Lys | Arg | Ser | Ser | Ser | Ser | Arg | Asn | Arg | Gly | Pro | His | Gly | Arg |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |
| Ser | Asn | Gly | Ala | Ser | Ser | His | Lys | Pro | Gly | Ser | Ser | Pro | Ser | Ser |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |
| Pro | Arg | Glu | Lys | Asp | Leu | Leu | Ser | Met | Leu | Cys | Arg | Asn | Gln | Leu |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |
| Ser | Pro | Val | Asn | Ile | His | Pro | Ser | Tyr | Ala | Pro | Ser | Ser | Pro | Ser |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |
| Ser | Ser | Asn | Ser | Gly | Ser | Tyr | Lys | Gly | Ser | Asp | Cys | Ser | Pro | Ile |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |
| Met | Arg | Arg | Ser | Gly | Arg | Tyr | Met | Ser | Cys | Gly | Glu | Asn | His | Gly |
|     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |
| Val | Arg | Pro | Pro | Asn | Pro | Glu | Gln | Tyr | Leu | Thr | Pro | Leu | Gln | Gln |
|     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Lys | Glu | Val | Thr | Val | Arg | His | Leu | Lys | Ile | Lys | Leu | Lys | Glu | Ser |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |
| Glu | Arg | Arg | Leu | His | Glu | Arg | Glu | Ser | Glu | Ile | Val | Glu | Leu | Lys |
|     |     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |
| Ser | Gln | Leu | Ala | Arg | Met | Arg | Glu | Asp | Trp | Ile | Glu | Glu | Glu | Cys |
|     |     |     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |
| His | Arg | Val | Glu | Ala | Gln | Leu | Ala | Leu | Lys | Glu | Ala | Arg | Lys | Glu |
|     |     |     |     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |
| Ile | Lys | Gln | Leu | Lys | Gln | Val | Ile | Glu | Thr | Met | Arg | Ser | Ser | Leu |
|     |     |     |     | 305 |     |     |     |     | 310 |     |     |     |     | 315 |
| Ala | Asp | Lys | Asp | Lys | Gly | Ile | Gln | Lys | Tyr | Phe | Val | Asp | Ile | Asn |
|     |     |     |     | 320 |     |     |     |     | 325 |     |     |     |     | 330 |
| Ile | Gln | Asn | Lys | Lys | Leu | Glu | Ser | Leu | Leu | Gln | Ser | Met | Glu | Met |
|     |     |     |     | 335 |     |     |     |     | 340 |     |     |     |     | 345 |
| Ala | His | Ser | Gly | Ser | Leu | Arg | Asp | Glu | Leu | Cys | Leu | Asp | Phe | Pro |
|     |     |     |     | 350 |     |     |     |     | 355 |     |     |     |     | 360 |
| Cys | Asp | Ser | Pro | Glu | Lys | Ser | Leu | Thr | Leu | Asn | Pro | Pro | Leu | Asp |
|     |     |     |     | 365 |     |     |     |     | 370 |     |     |     |     | 375 |
| Thr | Met | Ala | Asp | Gly | Leu | Ser | Leu | Glu | Glu | Gln | Val | Thr | Gly | Glu |
|     |     |     |     | 380 |     |     |     |     | 385 |     |     |     |     | 390 |
| Gly | Ala | Asp | Arg | Glu | Leu | Leu | Val | Gly | Asp | Ser | Ile | Ala | Asn | Ser |
|     |     |     |     | 395 |     |     |     |     | 400 |     |     |     |     | 405 |
| Thr | Asp | Leu | Phe | Asp | Glu | Ile | Val | Thr | Ala | Thr | Thr | Thr | Glu | Ser |
|     |     |     |     | 410 |     |     |     |     | 415 |     |     |     |     | 420 |
| Gly | Asp | Leu | Glu | Leu | Val | His | Ser | Thr | Pro | Gly | Ala | Asn | Val | Leu |

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|                 |                     |                     |     |  |     |
|-----------------|---------------------|---------------------|-----|--|-----|
|                 | 425                 |                     | 430 |  | 435 |
| Glu Leu Leu Pro | Ile Val Met Gly Gln | Glu Glu Gly Ser Val | Val |  |     |
|                 | 440                 |                     | 445 |  | 450 |
| Val Glu Arg Ala | Val Gln Thr Asp Val | Val Pro Tyr Ser Pro | Ala |  |     |
|                 | 455                 |                     | 460 |  | 465 |
| Ile Ser Glu Leu | Ile Gln Ser Val Leu | Gln Lys Leu Gln Asp | Pro |  |     |
|                 | 470                 |                     | 475 |  | 480 |
| Cys Pro Ser Ser | Leu Ala Ser Pro Asp | Glu Ser Glu Pro Asp | Ser |  |     |
|                 | 485                 |                     | 490 |  | 495 |
| Met Glu Ser Phe | Pro Glu Ser Leu Ser | Ala Leu Val Val Asp | Leu |  |     |
|                 | 500                 |                     | 505 |  | 510 |
| Thr Pro Arg Asn | Pro Asn Ser Ala Ile | Leu Leu Ser Pro Val | Glu |  |     |
|                 | 515                 |                     | 520 |  | 525 |
| Thr Pro Tyr Ala | Asn Val Asp Ala Glu | Val His Ala Asn Arg | Leu |  |     |
|                 | 530                 |                     | 535 |  | 540 |
| Met Arg Glu Leu | Asp Phe Ala Ala Cys | Val Glu Glu Arg Leu | Asp |  |     |
|                 | 545                 |                     | 550 |  | 555 |
| Gly Val Ile Pro | Leu Ala Arg Gly Gly | Val Val Arg Gln Tyr | Trp |  |     |
|                 | 560                 |                     | 565 |  | 570 |
| Ser Ser Ser Phe | Leu Val Asp Leu Leu | Ala Val Ala Ala Pro | Val |  |     |
|                 | 575                 |                     | 580 |  | 585 |
| Val Pro Thr Val | Leu Trp Ala Phe Ser | Thr Gln Arg Gly Gly | Thr |  |     |
|                 | 590                 |                     | 595 |  | 600 |
| Asp Pro Val Tyr | Asn Ile Gly Ala Leu | Leu Arg Gly Cys Cys | Val |  |     |
|                 | 605                 |                     | 610 |  | 615 |
| Val Ala Leu His | Ser Leu Arg Arg Thr | Ala Phe Arg Ile Lys | Thr |  |     |
|                 | 620                 |                     | 625 |  | 630 |

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<211> 339

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1794031CD1

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| Met Asp Glu Asp | Leu Ser Ala Ser Gln | Asp His Ser Gln Ala | Val |  |  |
| 1               | 5                   | 10                  | 15  |  |  |
| Thr Leu Ile Gln | Glu Lys Met Thr Leu | Phe Lys Ser Leu Met | Asp |  |  |
|                 | 20                  | 25                  | 30  |  |  |
| Arg Phe Glu His | His Ser Asn Ile Leu | Leu Thr Phe Glu Asn | Lys |  |  |
|                 | 35                  | 40                  | 45  |  |  |
| Asp Glu Asn His | Leu Pro Leu Val Pro | Pro Asn Lys Leu Glu | Glu |  |  |
|                 | 50                  | 55                  | 60  |  |  |
| Met Lys Arg Arg | Ile Asn Asn Ile Leu | Glu Lys Lys Phe Ile | Leu |  |  |
|                 | 65                  | 70                  | 75  |  |  |
| Leu Leu Glu Phe | His Tyr Tyr Lys Cys | Leu Val Leu Gly Leu | Val |  |  |
|                 | 80                  | 85                  | 90  |  |  |
| Asp Glu Val Lys | Ser Lys Leu Asp Ile | Trp Asn Ile Lys Tyr | Gly |  |  |
|                 | 95                  | 100                 | 105 |  |  |
| Ser Arg Glu Ser | Val Glu Leu Leu Leu | Glu Asp Trp His Lys | Phe |  |  |

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|                 |                     |                     |     |  |     |
|-----------------|---------------------|---------------------|-----|--|-----|
|                 | 110                 |                     | 115 |  | 120 |
| Ile Glu Glu Lys | Glu Phe Leu Ala Arg | Leu Asp Thr Ser Phe | Gln |  |     |
|                 | 125                 |                     | 130 |  | 135 |
| Lys Cys Gly Glu | Ile Tyr Lys Asn Leu | Ala Gly Glu Cys Gln | Asn |  |     |
|                 | 140                 |                     | 145 |  | 150 |
| Ile Asn Lys Gln | Tyr Met Met Val Lys | Ser Asp Val Cys Met | Tyr |  |     |
|                 | 155                 |                     | 160 |  | 165 |
| Arg Lys Asn Ile | Tyr Asn Val Lys Ser | Thr Leu Gln Lys Val | Leu |  |     |
|                 | 170                 |                     | 175 |  | 180 |
| Ala Cys Trp Ala | Thr Tyr Val Glu Asn | Leu Arg Leu Leu Arg | Ala |  |     |
|                 | 185                 |                     | 190 |  | 195 |
| Cys Phe Glu Glu | Thr Lys Lys Glu Glu | Ile Lys Glu Val Pro | Phe |  |     |
|                 | 200                 |                     | 205 |  | 210 |
| Glu Thr Leu Ala | Gln Trp Asn Leu Glu | His Ala Thr Leu Asn | Glu |  |     |
|                 | 215                 |                     | 220 |  | 225 |
| Ala Gly Asn Phe | Leu Val Glu Val Ser | Asn Asp Val Val Gly | Ser |  |     |
|                 | 230                 |                     | 235 |  | 240 |
| Ser Ile Ser Lys | Glu Leu Arg Arg Leu | Asn Lys Arg Trp Arg | Lys |  |     |
|                 | 245                 |                     | 250 |  | 255 |
| Leu Val Ser Lys | Thr Gln Leu Glu Met | Asn Leu Pro Leu Met | Ile |  |     |
|                 | 260                 |                     | 265 |  | 270 |
| Lys Lys Gln Asp | Gln Pro Thr Phe Asp | Asn Ser Gly Asn Ile | Leu |  |     |
|                 | 275                 |                     | 280 |  | 285 |
| Ser Lys Glu Glu | Lys Ala Thr Val Glu | Phe Ser Thr Asp Met | Ser |  |     |
|                 | 290                 |                     | 295 |  | 300 |
| Val Glu Leu Pro | Glu Asn Tyr Asn Gln | Asn Ile Lys Ala Gly | Glu |  |     |
|                 | 305                 |                     | 310 |  | 315 |
| Lys His Glu Lys | Glu Asn Glu Glu Phe | Thr Gly Gln Leu Lys | Val |  |     |
|                 | 320                 |                     | 325 |  | 330 |
| Ala Lys Asp Val | Glu Lys Leu Ile Gly |                     |     |  |     |
|                 | 335                 |                     |     |  |     |

<210> 26

<211> 189

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2060563CD1

<400> 26

|                 |                     |                     |     |  |  |
|-----------------|---------------------|---------------------|-----|--|--|
| Met Leu Gly Met | Ile Lys Asn Ser Leu | Phe Gly Ser Val Glu | Thr |  |  |
| 1               | 5                   | 10                  | 15  |  |  |
| Trp Pro Trp Gln | Val Leu Ser Lys Gly | Asp Lys Glu Glu Val | Ala |  |  |
|                 | 20                  | 25                  | 30  |  |  |
| Tyr Glu Glu Arg | Ala Cys Glu Gly Gly | Lys Phe Ala Thr Val | Glu |  |  |
|                 | 35                  | 40                  | 45  |  |  |
| Val Thr Asp Lys | Pro Val Asp Glu Ala | Leu Arg Glu Ala Met | Pro |  |  |
|                 | 50                  | 55                  | 60  |  |  |
| Lys Val Ala Lys | Tyr Ala Gly Gly Thr | Asn Asp Lys Gly Ile | Gly |  |  |
|                 | 65                  | 70                  | 75  |  |  |
| Met Gly Met Thr | Val Pro Ile Ser Phe | Ala Val Phe Pro Asn | Glu |  |  |
|                 | 80                  | 85                  | 90  |  |  |

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Asp | Gly | Ser | Leu | Gln | Lys | Lys | Leu | Lys | Val | Trp | Phe | Arg | Ile | Pro |  |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |  |
| Asn | Gln | Phe | Gln | Ser | Asp | Pro | Pro | Ala | Pro | Ser | Asp | Lys | Ser | Val |  |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |  |
| Lys | Ile | Glu | Glu | Arg | Glu | Gly | Ile | Thr | Val | Tyr | Ser | Met | Gln | Phe |  |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |  |
| Gly | Gly | Tyr | Ala | Lys | Glu | Ala | Asp | Tyr | Val | Ala | Gln | Ala | Thr | Arg |  |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |  |
| Leu | Arg | Ala | Ala | Leu | Glu | Gly | Thr | Ala | Thr | Tyr | Arg | Gly | Asp | Ile |  |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |  |
| Tyr | Phe | Cys | Thr | Gly | Tyr | Asp | Pro | Pro | Met | Lys | Pro | Tyr | Gly | Arg |  |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |  |
| Arg | Asn | Glu | Ile | Trp | Leu | Leu | Lys | Thr |     |     |     |     |     |     |  |
|     |     |     |     | 185 |     |     |     |     |     |     |     |     |     |     |  |

<210> 27

<211> 530

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2573955CD1

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Met | Leu | Leu | Trp | Pro | Leu | Leu | Leu | Leu | Leu | Leu | Leu | Leu | Pro | Thr |  |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |  |
| Leu | Ala | Leu | Leu | Arg | Gln | Gln | Arg | Ser | Gln | Asp | Ala | Arg | Leu | Ser |  |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |  |
| Trp | Leu | Ala | Gly | Leu | Gln | His | Arg | Val | Ala | Trp | Gly | Ala | Leu | Val |  |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |  |
| Trp | Ala | Ala | Thr | Trp | Gln | Arg | Arg | Arg | Leu | Glu | Gln | Ser | Thr | Leu |  |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |  |
| His | Val | His | Gln | Ser | Gln | Gln | Gln | Ala | Leu | Arg | Trp | Cys | Leu | Gln |  |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |  |
| Gly | Ala | Gln | Arg | Pro | His | Cys | Ser | Leu | Arg | Arg | Ser | Thr | Asp | Ile |  |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |  |
| Ser | Thr | Phe | Arg | Asn | His | Leu | Pro | Leu | Thr | Lys | Ala | Ser | Gln | Thr |  |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |  |
| Gln | Gln | Glu | Asp | Ser | Gly | Glu | Gln | Pro | Leu | Ala | Pro | Thr | Ser | Asn |  |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |  |
| Gln | Asp | Leu | Gly | Glu | Ala | Ser | Leu | Gln | Ala | Thr | Leu | Leu | Gly | Leu |  |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |  |
| Ala | Ala | Leu | Asn | Lys | Ala | Tyr | Pro | Glu | Val | Leu | Ala | Gln | Gly | Arg |  |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |  |
| Thr | Ala | Arg | Val | Thr | Leu | Thr | Ser | Pro | Trp | Pro | Arg | Pro | Leu | Pro |  |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |  |
| Trp | Pro | Gly | Asn | Thr | Leu | Gly | Gln | Val | Gly | Thr | Pro | Gly | Thr | Lys |  |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |  |
| Asp | Pro | Arg | Ala | Leu | Leu | Leu | Asp | Ala | Leu | Arg | Ser | Pro | Gly | Leu |  |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |  |
| Arg | Ala | Leu | Glu | Ala | Gly | Thr | Ala | Val | Glu | Leu | Leu | Asp | Val | Phe |  |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |  |
| Leu | Gly | Leu | Glu | Thr | Asp | Gly | Glu | Glu | Leu | Ala | Gly | Ala | Ile | Ala |  |

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|                 |                     |                         |     |  |     |
|-----------------|---------------------|-------------------------|-----|--|-----|
|                 | 215                 |                         | 220 |  | 225 |
| Ala Gly Asn Pro | Gly Ala Pro Leu Arg | Glu Arg Ala Ala Glu Leu |     |  |     |
|                 | 230                 |                         | 235 |  | 240 |
| Arg Glu Ala Leu | Glu Gln Gly Pro Arg | Gly Leu Ala Leu Arg Leu |     |  |     |
|                 | 245                 |                         | 250 |  | 255 |
| Trp Pro Lys Leu | Gln Val Val Val Thr | Leu Asp Ala Gly Gly Gln |     |  |     |
|                 | 260                 |                         | 265 |  | 270 |
| Ala Glu Ala Val | Ala Ala Leu Gly Ala | Leu Trp Cys Gln Gly Leu |     |  |     |
|                 | 275                 |                         | 280 |  | 285 |
| Ala Phe Phe Ser | Pro Ala Tyr Ala Ala | Ser Gly Gly Val Leu Gly |     |  |     |
|                 | 290                 |                         | 295 |  | 300 |
| Leu Asn Leu Gln | Pro Glu Gln Pro His | Gly Leu Tyr Leu Leu Pro |     |  |     |
|                 | 305                 |                         | 310 |  | 315 |
| Pro Gly Ala Pro | Phe Ile Glu Leu Leu | Pro Val Lys Glu Gly Thr |     |  |     |
|                 | 320                 |                         | 325 |  | 330 |
| Gln Glu Glu Ala | Ala Ser Thr Leu Leu | Leu Ala Glu Ala Gln Gln |     |  |     |
|                 | 335                 |                         | 340 |  | 345 |
| Gly Lys Glu Tyr | Glu Leu Val Leu Thr | Asp Arg Ala Ser Leu Thr |     |  |     |
|                 | 350                 |                         | 355 |  | 360 |
| Arg Cys Arg Leu | Gly Asp Val Val Arg | Val Val Gly Ala Tyr Asn |     |  |     |
|                 | 365                 |                         | 370 |  | 375 |
| Gln Cys Pro Val | Val Arg Phe Ile Cys | Arg Leu Asp Gln Thr Leu |     |  |     |
|                 | 380                 |                         | 385 |  | 390 |
| Ser Val Arg Gly | Glu Asp Ile Gly Glu | Asp Leu Phe Ser Glu Ala |     |  |     |
|                 | 395                 |                         | 400 |  | 405 |
| Leu Gly Arg Ala | Val Gly Gln Trp Ala | Gly Ala Lys Leu Leu Asp |     |  |     |
|                 | 410                 |                         | 415 |  | 420 |
| His Gly Cys Val | Glu Ser Ser Ile Leu | Asp Ser Ser Ala Gly Ser |     |  |     |
|                 | 425                 |                         | 430 |  | 435 |
| Ala Pro His Tyr | Glu Val Phe Val Ala | Leu Arg Gly Leu Arg Asn |     |  |     |
|                 | 440                 |                         | 445 |  | 450 |
| Leu Ser Glu Glu | Asn Arg Asp Lys Leu | Asp His Cys Leu Gln Glu |     |  |     |
|                 | 455                 |                         | 460 |  | 465 |
| Ala Ser Pro Arg | Tyr Lys Ser Leu Arg | Phe Trp Gly Ser Val Gly |     |  |     |
|                 | 470                 |                         | 475 |  | 480 |
| Pro Ala Arg Val | His Leu Val Gly Gln | Gly Ala Phe Arg Ala Leu |     |  |     |
|                 | 485                 |                         | 490 |  | 495 |
| Arg Ala Ala Leu | Ala Ala Cys Pro Ser | Ser Pro Phe Pro Pro Ala |     |  |     |
|                 | 500                 |                         | 505 |  | 510 |
| Met Pro Arg Val | Leu Arg His Arg His | Leu Ala Gln Cys Leu Gln |     |  |     |
|                 | 515                 |                         | 520 |  | 525 |
| Glu Arg Val Val | Ser                 |                         |     |  |     |
|                 | 530                 |                         |     |  |     |

<210> 28

<211> 356

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 3404792CD1

<400> 28

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| Met | Ala | Gly | Leu | Gly | Ser | Asp | Pro | Trp | Trp | Lys | Lys | Thr | Leu | Tyr | 1   | 5   | 10  | 15 |
| Leu | Thr | Gly | Gly | Ala | Leu | Leu | Ala | Ala | Ala | Tyr | Leu | Leu | His | 20  | 25  | 30  |     |    |
| Glu | Leu | Leu | Val | Ile | Arg | Lys | Gln | Gln | Glu | Ile | Asp | Ser | Lys | Asp | 35  | 40  | 45  |    |
| Ala | Ile | Ile | Leu | His | Gln | Phe | Ala | Arg | Pro | Asn | Asn | Gly | Val | Pro | 50  | 55  | 60  |    |
| Ser | Leu | Ser | Pro | Phe | Cys | Leu | Lys | Met | Glu | Thr | Tyr | Leu | Arg | Met | 65  | 70  | 75  |    |
| Ala | Asp | Leu | Pro | Tyr | Gln | Asn | Tyr | Phe | Gly | Gly | Lys | Leu | Ser | Ala | 80  | 85  | 90  |    |
| Gln | Gly | Lys | Met | Pro | Trp | Ile | Glu | Tyr | Asn | His | Glu | Lys | Val | Ser | 95  | 100 | 105 |    |
| Gly | Thr | Glu | Phe | Ile | Ile | Asp | Phe | Leu | Glu | Glu | Lys | Leu | Gly | Val | 110 | 115 | 120 |    |
| Asn | Leu | Asn | Lys | Asn | Leu | Gly | Pro | His | Glu | Arg | Ala | Ile | Ser | Arg | 125 | 130 | 135 |    |
| Ala | Val | Thr | Lys | Met | Val | Glu | Glu | His | Phe | Tyr | Trp | Thr | Leu | Ala | 140 | 145 | 150 |    |
| Tyr | Cys | Gln | Trp | Val | Asp | Asn | Leu | Asn | Glu | Thr | Arg | Lys | Met | Leu | 155 | 160 | 165 |    |
| Ser | Leu | Ser | Gly | Gly | Gly | Pro | Phe | Ser | Asn | Leu | Leu | Arg | Trp | Val | 170 | 175 | 180 |    |
| Val | Cys | His | Ile | Thr | Lys | Gly | Ile | Val | Lys | Arg | Glu | Met | His | Gly | 185 | 190 | 195 |    |
| His | Gly | Ile | Gly | Arg | Phe | Ser | Glu | Glu | Glu | Ile | Tyr | Met | Leu | Met | 200 | 205 | 210 |    |
| Glu | Lys | Asp | Met | Arg | Ser | Leu | Ala | Gly | Leu | Leu | Gly | Asp | Lys | Lys | 215 | 220 | 225 |    |
| Tyr | Ile | Met | Gly | Pro | Lys | Leu | Ser | Thr | Leu | Asp | Ala | Thr | Val | Phe | 230 | 235 | 240 |    |
| Gly | His | Leu | Ala | Gln | Ala | Met | Trp | Thr | Leu | Pro | Gly | Thr | Arg | Pro | 245 | 250 | 255 |    |
| Glu | Arg | Leu | Ile | Lys | Gly | Glu | Leu | Ile | Asn | Leu | Ala | Met | Tyr | Cys | 260 | 265 | 270 |    |
| Glu | Arg | Ile | Arg | Arg | Lys | Phe | Trp | Pro | Glu | Trp | His | His | Asp | Asp | 275 | 280 | 285 |    |
| Asp | Asn | Thr | Ile | Tyr | Glu | Ser | Glu | Glu | Ser | Ser | Glu | Gly | Ser | Lys | 290 | 295 | 300 |    |
| Thr | His | Thr | Pro | Leu | Leu | Asp | Phe | Ser | Phe | Tyr | Ser | Arg | Thr | Glu | 305 | 310 | 315 |    |
| Thr | Phe | Glu | Asp | Glu | Gly | Ala | Glu | Asn | Ser | Phe | Ser | Arg | Thr | Pro | 320 | 325 | 330 |    |
| Asp | Thr | Asp | Phe | Thr | Gly | His | Ser | Leu | Phe | Asp | Ser | Asp | Val | Asp | 335 | 340 | 345 |    |
| Met | Asp | Asp | Tyr | Thr | Asp | His | Glu | Gln | Cys | Lys | 350 | 355 |     |     |     |     |     |    |

<210> 29

<211> 1364

<212> DNA

<213> Homo sapiens

PF-0741 USN

<220>

<221> misc\_feature

<223> Incyte ID No: 1681724CB1

<400> 29

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cgatgcggcc aagccagcgg agggccccga cgctcccgag gcggccagcc ccgcccattg 180
gcccagggag agcctgggtt tgtaccactg gaccagtc ttcagctcgc agaaggtgcg 240
gctggtgatc gccgagaagg gcctgggtgt cgaggagcgg gacgtgagcc tgccacagag 300
cgagcacaag gagccctggg tcatgcggct caacctgggc gaggaggtgc ccgtcatcat 360
ccaccgcgac aacatcatca gtgactatga ccagatcatt gactatgtgg agcgcacctt 420
cacaggagag cacgtgggtg ccctgatgcc cgagggtggc agcctgcagc acgcacgggt 480
gctgcagtac cgggagctgc tggacgcact gcccatggat gcctacacgc atggctgcat 540
cctgcatccc gagctcacca ccgactccat gatccccaag tacgccacgg ccgagatccg 600
cagacattta gccaatgcca ccacggacct catgaaactg gaccatgaag aggagcccca 660
gctctccgag ccttaccttt ctaaacaaaa gaagctcatg gccaagatct tggagcatga 720
tgatgtgagc tacctgaaga agatcctcgg ggaactggcc atggtgctgg accagattga 780
ggcggagctg gagaagagga agctggagaa cgaggggcag aaatgcgagc tgtggctctg 840
tggctgtgcc ttcacctcgc ctgatgtcct cctgggagcc accctgcacc gcctcaagtt 900
cctgggactg tccaagaaat actgggaaga tggcagccgg cccaacctgc agtccttctt 960
tgagaggggtc cagagacgct ttgccttccg gaaagtcctg ggtgacatcc acaccacct 1020
gctgtcggcc gtcatcccca atgctttccg gctggtcaag aggaaacccc catccttctt 1080
cggggcgctc ttcctcatgg gctccctggg tgggatgggc tactttgcct actggtacct 1140
caagaaaaaa tacatctagg gccaggcctg gggcttggtg tctgactgtc ggtgtctctg 1200
tgctgtgtga ttccccgtga gctctcagta actcactgtc tcatgaacac ttggacagcc 1260
ctccccgcc ttcgttctga gtaataatac cgtcagtgtg aaaacattcc gtagtttaga 1320
agtagacgtt gccaatgctg tgactcaagg ccagggttca atta 1364
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<210> 30

<211> 505

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1718047CB1

<400> 30

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gacctgaagg cagatggctc ttcttaaggc caataaggat ctcatctccg caggattgaa 120
ggagttcagc gttctgctga atcagcaggt cttcaatgat cctctcgtct ctgaagaaga 180
catggtgact gtggtggagg actggatgaa cttctacatc aactattaca ggcagcaggt 240
gacaggggag cccaagagc gagacaaggc tctgcaggag cttcggcaag agctgaacac 300
tctggccaac cttttcctgg ccaagtacag ggacttcctg aagtctcatg agctcccgag 360
tcaccaccgc cctcctcct agctcagga cccagccccc cctctctgag aaactctgac 420
cttcatgtcc ttaggctgtg ctctgccac tctacctga cacctcaata aagaccagt 480
ctggttttgt tggaaaaaaa aaaaa 505
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<210> 31

<211> 926

<212> DNA

<213> Homo sapiens

PF-0741 USN

<220>

<221> misc\_feature

<223> Incyte ID No: 1980323CB1

<400> 31

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acgcatcggg tgggctcggg tctccagccc ggccgggagg agggaccggg tctgcggagc 120
ggggactcgg ggccctcggcg gggcgcgcac acgcaggcgg ggcgggccgg ggtgcggggc 180
ctctgcgceg ctgaccaggc tcccagagcg tcacgcgcgc catggccgag ccgctccagc 240
cagaccccgg ggcgggccgag gacgcggcgg cccaagctgt ggagacgccg ggctggaagg 300
ccccggagga cgccggcccc cagcccgga gttatgagat ccgacactat ggaccagcca 360
agtgggtcag cagctccgtg gagtctatgg actgggattc agccatccag acgggcttta 420
cgaaactgaa cagctacatt caaggcaaaa acgagaaaaga gatgaaaata aagatgacag 480
ctccagtgac aagctacgtg gagcctgggt caggtccttt tagtgagtct accattacca 540
tttccctgta tattccctct gaacagcaat ttgatccacc caggccttta gagtcagatg 600
tcttcattga agatagagcc gaaatgactg tgtttgtacg gtcttttcgat ggattttcta 660
gtgccccaaa gaatcaagaa caacttttga cattagcaag cattttaagg gaagatggaa 720
aagttttcga tgagaagggt tactacactg caggctacaa cagtcctgtc aaattgctta 780
atagaaataa tgaagtgtgg ttgattcaaa aaaatgaacc caccaaagaa aacgaatgag 840
aaaaatgaaa ggaagtcttg ctgtcagagg caaaacatct gtttatcata gacatcaaca 900
tgacctataa gtaaaaaaaa aaaaaa 926
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<210> 32

<211> 1364

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1990956CB1

<400> 32

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tcgtggctcg ttccattctc ggcggtggta cctgctcccg gtggccctga ggacgtgtgg 120
gccaggggcg gccccgaaat taggaagcgg agggggagca gtctgcaggt ctgcgggggc 180
aagtgtcgcg gcggcgccacc tcgcgtcaag aatccggagg aggagactgc aaggataggc 240
ccaggagtaa tggagtccaa agaggaacta gcggcaaca atctcaacgg ggaaaatgcc 300
caacaagaaa acgaaggagg ggagcaggcc cccacgcaga atgaagaaga atcccgccat 360
ttgggagggg gtgaaggcca gaagcctgga ggaaatatca ggcgggggcg agttaggcga 420
cttgtccccta atttttcgat ggccatacct aataggcata ttgagcacia tgaagcgaga 480
gatgatgtag aaaggtttgt agggcagatg atggaaatca agagaaagac tagggaacag 540
cagatgaggc actatatgcg cttccaaact cctgaacctg acaaccatta tgacttttgc 600
ctcatacctt gaatcctaaa agttttcgct gaggttaatg tgaacactgc tttacaagct 660
tgtatttttg tgattttact tttctgtaag ccttttgggtg tttacactta ccagtttcta 720
atggaaatta gaattcta at tgaatattgt tttgtctcag cctaaaagtt acggtcagca 780
tggcaattca cctatttttag gaaaaatact cttttcataa tatgaaatgc ataaagcagt 840
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tattactttt cctcctccgg ctacctggac tcaaaatctc agttgtcttt gacagttttt 960
ttcttgtccc tgacaaaaaa agaatgatca taccagaat tcaatgtttg atattttaag 1020
aatgtatgtt ctagtgtttt tcagagttag tctaccatct gtataaaaac accttggggg 1080
caggcagggg catttaaaaa tgtaggacct atcgtccaga ctcacagagt ggggctccag 1140
aatctccatt ttttaaaaa tctcttaagt aattctgtag tgtacaaaa tcagtgccat 1200
tgggtgtgtg gtacgtaact atatacatat gtgtgtgtgt gtatatatat aatgtgtcat 1260
aaccgtaaac aataaacaat atcaagataa atctgacttt gatgggcaag taattaaaaa 1320
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agaaaagtat gagaccttaa aaaaaaaaaa aaaaaaaaaa aaaa 1364

<210> 33

<211> 464

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2009069CB1

<400> 33

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ctaatagaaga tgtggacgaa cacaccccat caacctcaag taccaaaggg aggaagaagg 120
ggaagacacc ccgtcaacga aggtccagaa gcggcgtaa gggcctaaag accaccagga 180
aggcgaaaaag accccttcga gggagctcga gccaaaaagc cggtgaaact aacacccttg 240
caggaaaacc taagaaaagct agaggaccaa tactgctggg tcgttatcac cggctgaaag 300
aaaaaatgaa gaaagaagag gccgacaaag agcaaagcga gacctcagtt ctgtgatgtc 360
tctagagggtc cgccactgaa aagtcatcaa tcatacagtc agtgaattct acaccaacag 420
gttaaaacca tgaaaataaa atcaacctga atcgaaaaaa aaaa 464
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<210> 34

<211> 1549

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2009435CB1

<400> 34

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ttccctgggt cgaccacgc gtccgggaag acagtttgca ttcttgcaac attaaaccaa 60
agggacttgg agtgcagatg gcatccttcg gttcttccag acaagctgca agacgctgac 120
catggccaag atggagctct cgaaggcctt ctctggccag cggacactcc tatctgccat 180
cctcagcatg ctatcactca gcttctccac aacatccctg ctgagcaact actggtttgt 240
gggcacacag aaggtgcccc agcccctgtg cgagaaaggt ctggcagcca agtgctttga 300
catggcagtg tccctggatg gagataccaa cacatccacc caggaggtgg tacaatacaa 360
ctggggagact ggggatgacc ggttctcctt ccggagcttc cggagtggca tgtggctatc 420
ctgtgaggaa actgtggaag aaccagcact gctccatccc cagtcctgga aacaatttag 480
agcccttcgg tccagtggta cagcggcagc aaaaggggag aggtgccgaa gtttcattga 540
acttacacca ccagccaaga gaggtgagaa aggactactg gaatttgcca cgttgcaagg 600
cccatgtcac ccactctcc gatttgagg gaagcggttg atggagaagg cttccctccc 660
ctccctccc ttggggcttt gtggcaaaaa tcctatggtt atccctggga acgcagatca 720
cctacatcgg acttcaattc atcagcttcc tcctgctact aacagacttg ctactcactg 780
ggaaccctgc ctgtgggctc aaactgagcg cctttgctgc tgtttcctct gtccctgtcag 840
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tgggtccaga agactggaga ccacatgttt ggaattatgg ctgggccttc tacatggcct 960
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tggtgctgga gttcaagtgc aagcatagta agagcttcaa ggaaaaccgg aactgcctac 1080
cacatacca tcagtgtttc cctcggcggc tgtcaagtgc agccccacc gtgggtcctt 1140
tgaccagcta ccaccagtat cataatcagc ccattccactc tgtctctgag ggagtcgact 1200
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cagttagggtc atctgtagag gaagagcagt gttaggagtt aagcgggttt ggggagttagg 1320
cttgagccct accttacacg tctgctgatt atcaacatgt gcttaagcca aaaagctctg 1380
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gagctatttc cagattaaat agtttttcta aaactttctg tccttcttta ctgggggcct 1440
gtcagcatca ctgatgaata tttcttgcca cagaggtttt tcttggtttt cccggattcc 1500
tttggaatgtg gatcaacttt aaaatatcct gggtgactcc gggtcacca 1549
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<210> 35  
<211> 1205  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 2027937CB1

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<400> 35
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gcagcagtg cagcagccat gtgtgcccc tccatgctc ccaaagaccc aggagcagtg 120
ccaagcaaag gctgaggagg tgtgcctccc cacatgccag caccctgcc aagataagtg 180
tctagtgcag gccaggagg tatgtctttc tcagtgccag gaatcaagtc aagaaaaatg 240
cccacagcaa ggccaagagc catacctacc tccatgccaa gaccagtgtc cacctcagt 300
tgcagagcca tgccaggagc tattccagac aaaatgtgtg gaggtttgcc cacagaaagt 360
tcaggagaag tgctcatccc ctggcaaggg aaagttagtg ctcatatgtc atctgggttc 420
aagaagatgg ccagcagatg aaaccctgac ccagcccac gctctggtga ccttcttctg 480
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tgggtctgtg ctctgaagac agttctttct gtatttcac accctctgtg aataagcatt 600
gttctcagca gtctgatgga aggtctcaaa tgtaggaatg gtgtggttgt cagggaagac 660
cacagaagcc tagcacagct tccttggtgc aaaaattcac ccagctctgg gtgtgtaaca 720
gccaaggata ccttcattca tctttcagag tttcaggctc tcaaataagc ctcaaaacaa 780
actgaattct gatggacttt ccacttatca ccaccaccac cacctccacc accaccacca 840
ccacaggtgt tgagacaaa cggcttgcgg tgtttcaaaa atcaaaaatt tgggtgatttt 900
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ttaaatagaa ccgaaagtat gtaaacgatt gaatccaaac aaccagaagg gaaagataag 1020
atggatgttt ggtgcccttg tcaatctctg tgcttcata ctggtcta atgtggccctt 1080
agttctcacc atgtacactc ttagagatg tgatttgtgt ctgtgtgatg caggctggtc 1140
tgttctccag cttccttgcc ttcttctccc tgggtgaagg aaaatacata ataaagctga 1200
tcctg 1205
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<210> 36  
<211> 4061  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 2722347CB1

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<400> 36
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cagaatacag aaactgcagc catgaccagc cagctcacc tggaagatgc cctgtccaac 120
gtggacctgc ttgaagagct tccctcccc gaccagcagc catgcatcga gcctccacct 180
tcctccatca tgtaccaggc taactttgac acaaactttg aggacaggaa tgcatttgct 240
acgggcattg caaggtacat tgagcaggct acagtccact ccagcatgaa tgagatgctg 300
gaggaaggac atgagtatgc ggtcatgctg tacacctggc gcagctgttc cggggccatt 360
cccaggtga aatgcaacga gcagccaac cgagtagaga tctatgagaa gacagtagag 420
gtgctggagc cggaggtcac caagctcatg aagttcatgt attttcagcg caaggccatc 480
```

|             |             |            |             |             |            |      |
|-------------|-------------|------------|-------------|-------------|------------|------|
| gagcggttct  | gcagcgaggt  | gaagcggctg | tgccatgccg  | agcgcaggaa  | ggactttgtc | 540  |
| tctgaggcct  | acctcctgac  | ccttggaag  | ttcatcaaca  | tgtttgctgt  | cctggatgag | 600  |
| ctaaagaaca  | tgaagtgcag  | cgtaagaat  | gaccactctg  | cctacaagag  | ggcagcacag | 660  |
| ttcctgcgga  | agatggcaga  | tccccagtc  | atccaggagt  | cgcagaacct  | ttccatgttc | 720  |
| ctggccaacc  | acaacaggat  | caccagtg   | ctccaccagc  | aacttgaagt  | gatcccaggc | 780  |
| tatgaggagc  | tgctggctga  | cattgtcaac | atctgtgtgg  | attactacga  | gaacaagatg | 840  |
| tacctgactc  | ccagtgcagaa | acatatgtct | ctcaagggtga | tgggctttgg  | cctctacctt | 900  |
| atggatggaa  | atgtcagtaa  | catttataaa | ctggatgcc   | agaagagaat  | taatcttagc | 960  |
| aaaattgata  | aattctttaa  | gcagctgcag | gtggtgcccc  | ttttcggcga  | catgcagata | 1020 |
| gagctggcca  | gatacattaa  | gaccagtgct | cactatgaag  | agaacaagtc  | caagtggacg | 1080 |
| tgacccaga   | gcagcatcag  | cccccagtac | aatatctgcg  | agcagatgg   | tcagatccgg | 1140 |
| gatgaccaca  | tccgcttcat  | ctccgagctc | gctcgctaca  | gcaacagtga  | ggtggtgacg | 1200 |
| ggctcagggc  | tggacagcca  | gaagtcagac | gaggagtatc  | gcgagctctt  | cgacctagcc | 1260 |
| ctgcggggct  | tgagcttct   | atccaagtgg | agcgcaccag  | tcattggagg  | gtactcttgg | 1320 |
| aagctggttc  | atcccacaga  | caagtctctg | aacaaggact  | gtcctggcac  | cgcgaggagg | 1380 |
| tatgagagag  | ccacacgcta  | caattacacc | agtgcagaaa  | aatttgctt   | cgttgagggt | 1440 |
| atcgccatga  | tcaaaggcct  | gcaggtgctc | atgggcagga  | tggagagcgt  | cttcaaccag | 1500 |
| gccatcagga  | acaccatcta  | cgcggcattg | caggacttcg  | cccaggtgac  | gctgcgtgag | 1560 |
| cccctgcggc  | aggcggtagc  | gaagaagaag | aatgtcctca  | tcagcgtcct  | acaggcaatt | 1620 |
| cgaaagacca  | tctgtgactg  | ggagggaggg | cgagagcccc  | ctaatagacc  | atgcttgaga | 1680 |
| ggggagaagg  | accccaaagg  | tggatttgat | atcaagggtc  | cccggcggtg  | tgtggggcca | 1740 |
| tccagcacac  | agctgtacat  | ggtgcggacc | atgcttgaat  | cactcattgc  | agacaaaagc | 1800 |
| ggctccaaga  | agaccctgag  | gagcagcctg | gatggaccca  | ttgtcctcgc  | catagaggac | 1860 |
| tttcacaaac  | agtcttctt   | cttcacacat | ctgctcaaca  | tcagtgaagc  | cctgcagcag | 1920 |
| tggtgtgacc  | tctcccagct  | ctggttccga | gaattcttcc  | tggagttaac  | catggggcca | 1980 |
| cgaatccagt  | tccccatcga  | gatgtccatg | ccctggatcc  | taacggacca  | tatcctggaa | 2040 |
| accaaagaac  | cttccatgat  | ggagtatgtc | ctctaccctc  | tggatctgta  | caacgacagc | 2100 |
| gcctactatg  | ctctgaccaa  | gtttaaaaag | cagttcctgt  | acgatgagat  | agaagctgag | 2160 |
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| aaagccatgg  | ctggcagtg   | cctgttggat | aaacgttttc  | gagctgagtg  | taagaattat | 2280 |
| ggcgtcatca  | ttccgtatcc  | accgtccaat | cgctatgaaa  | cactgctgaa  | gcagagacac | 2340 |
| gtccagctgt  | tgggtagatc  | aattgacttg | aacagactca  | ttaccagcgc  | catctctgcc | 2400 |
| gccatgtata  | aatccttgga  | ccaagctatc | agccgctttg  | agagtgcagg  | cctgacctcc | 2460 |
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| ccctatggcc  | gtatcaccct  | gcatgtcttc | tgggaactga  | actttgactt  | tctcccaaac | 2640 |
| tactgtctaca | atgggtccac  | taaccgtttt | gtcgggactg  | ccattccctt  | cacccaagaa | 2700 |
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| gtgatgccca  | agatatgccg  | cttgccccga | catgagtatg  | gtccccagg   | gatcctggag | 3000 |
| ttcttccacc  | accagctgaa  | ggacatcatt | gagtacgcag  | agctcaaaac  | agacgtgttc | 3060 |
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| gtctacatca  | aagaggggga  | gcgcctggag | gtccggatga  | aacgtctgga  | agccaagtat | 3240 |
| gccccgctcc  | acctggtccc  | tctgatcgag | cggctgggga  | cccctcagca  | aatcgccatt | 3300 |
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| gacctgttcg  | acttctgtta  | ccacctgcta | aaagtgcaga  | ggcaggacgg  | gaaggatgaa | 3660 |
| atcattaaga  | atgtgccct   | gaagaagatg | gccgaccgga  | tcaggaagta  | tcagatcttg | 3720 |

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taagcagaag atcctgcaga cccttatctg gaggaggaag agaagcagga gagagaaagc 3900
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<210> 37

<211> 773

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2759876CB1

<400> 37

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gtagcagaat tgcacaactt tgcacgtttc aggaagtgtg ttttcagaat tttatgaggt 720
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<210> 38

<211> 2116

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2763735CB1

<400> 38

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caagatgcag gaatcaggag agcaaactat aagtcaagta agcaatccag atgtcagtga 240
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tgccaatatt ccagcagcag cagtagccag catctcaaac caggattatc ccacctatac 600
tattcttggg cagaatcagt accaggcctg ctaccccagc tccagctttg gagtcacagg 660
tcagactaac agtgatgcag agagcaccac attagcagca accacatacc agtcggagaa 720
gcctagtgtc atggcgccctg cacctgcagc acagagactt tcctctggag acccttctac 780
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attagaacgg gtattttctgt gggacttgga tgaaaccatc atcatcttcc actcacttct 960
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atttcttatt gagaacatct atagtgtctc caaatttggg aaggagagct gctttgagag 1560
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gttttcaaaa aaaaaa 2116
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<210> 39

<211> 2556

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2848676CB1

<400> 39

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agccggtggc agcgggagca gccgctcctc ctggagaggg gatctctgct gctccgacag 180
ttgagcccag ttccggggag gctgaaggcg gggaggcaaa cttggtcgat gtaagcgggtg 240
gcttgagac agaatcatct aatggaaaag atacactaga aggtgctggg gatacatcag 300
aggtgatgga tactcaggcg ggctccgtgg atgaagagaa tggccgacag ttgggtgagg 360
tagagctgca atgtgggatt tgtacaaaat gggttcacggc tgacacattt ggcatagata 420
cctcatcctg tctaccttcc atgaccaact acagttttca ttgcaacgtc tgccatcaca 480
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gacctgggaa aatgacttgg ccaaataaca ttgttaaaac aatgagtaaa gaaagagatg 720
tattcttggg aaaggaacac ccagatccag gcagtaaaaga tccagaagaa gattacccca 780
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ataaaacttg ttttgaagtt taaaaaaaaa aaaaaa 2556
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<210> 40

<211> 1394

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2956153CB1

<400> 40

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cgcaagggtgc ccaagcaagg aaagaaataa tgaagagaca catgtgttag ctgcagcctt 180
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cctgtgggta acccgttccc tctccatgtg tctcctccta caaagttttg ttcttatgat 360
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ccatccattg taaacatttg aaactttgta tttcagtttc ttttgaatta tgccactgct 1200
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gaactttttaa caaacactac aacataaata atttgagttt aggtgatcca ccccttaatt 1260
gtacccccga tggatatatt ctgagtaagc tactatctga acattagtta gatccatctc 1320
actattttaat aatgaaattt attttttttaa tttaaaagca aataaaagct taactttgaa 1380
ccatgaaaaa aaaa 1394
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<210> 41

<211> 1376

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 3333139CB1

<400> 41

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gatgcccac agtgacatcg acttgagcaa cctggagcgg ctggagaagt accggagctt 180
cgaccgctac cggcgccggg cagagcagga ggcgaggcc ccgcaactgt ggcggaacct 240
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cgtggccctac gctgtgggtg aggatgacct gatgcctgtg tactgtggca atgaggtgac 600
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<210> 42

<211> 526

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 3432292CB1

<400> 42

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gctgtggtcc cagctctggg ggctgtgcg gctccagctc tgggggctgc tgcagctctg 240
ggggtggcgg ctgctgcctg agccaccaca ggccccgtct cttccaccgg caccggcacc 300
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PF-0741 USN

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agagccccga ttgttgtgag tctgaacttc tgggggctct ggctgctagc acagctctgg 360
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aacgaggaac ctgtcccca gagtgatagc ttcttctga ccccttggtg tctccttate 480
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<210> 43

<211> 2431

<212> DNA

<213> Homo sapiens

9

<220>

<221> misc\_feature

<223> Incyte ID No: 3478571CB1

<400> 43

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&lt;211&gt; 2204

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&lt;220&gt;

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&lt;223&gt; Incyte ID No: 3555629CB1

&lt;400&gt; 46

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&lt;213&gt; Homo sapiens

&lt;220&gt;

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&lt;223&gt; Incyte ID No: 902218CB1

&lt;400&gt; 48

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<210> 50

<211> 2196

<212> DNA

<213> Homo sapiens

<220>

PF-0741 USN

<221> misc\_feature

<223> Incyte ID No: 1400678CB1

<400> 50

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<210> 51

<211> 1495

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1435556CB1

<400> 51

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PF-0741 USN

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caaaaagtaa ttaaatggca tgcgtgcagg ctggacacgc caacaacagg ttcccacaa 300
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<210> 52

<211> 2794

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1546633CB1

<220>

<221> unsure

<222> (1) ... (2794)

<223> a, t, c, g, or other

<400> 52

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&lt;210&gt; 53

&lt;211&gt; 1516

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1794031CB1

&lt;400&gt; 53

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tcgacttgat acttcttttc aaaaatgtgg agaaatttat aagaatttgg ctggagaatg 600
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PF-0741 USN

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<210> 54

<211> 1146

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2060563CB1

<400> 54

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<210> 55

<211> 2761

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

PF-0741 USN

<223> Incyte ID No: 2573955CB1

<400> 55

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<210> 56

<211> 1164

<212> DNA

PF-0741 USN

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 3404792CB1

<400> 56

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